Order No. MD0207200C2

Service Manual

AV Control Receiver

* DOLBY DIGITAL

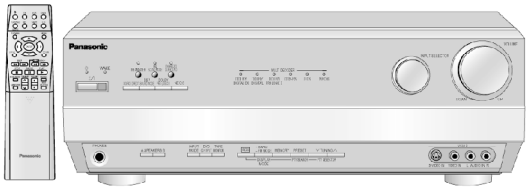
** DIGITAL dts SURROUND

SA-HE200E / SA-HE200EB / SA-HE200EG

Color

(K) ... Black Type

(S) ... Silver Type



SPECIFICATIONS

■ FM Tuner Section	
Frequency range	87.50-108.00 MHz
Sensitivity	
S/N 30 dB	1.5 μV/ 75 Ω
S/N 26 dB	1.3 μV/ 75 Ω
S/N 20 dB	1.2 μV/ 75 Ω
IHF usable sensitivity (IHP'58)	1.5 μV/ 75 Ω
IHF 46 dB stereo quieting sensitivity	22 μV/ 75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB, (71 dB, IHF)
Frequency response	20 Hz -15 kHz, +1 dB, -2 dB
Alternate channel selectivity	
±400 kHz	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB

Spurious response rejection at 98 MHz	**70 dB**
AM suppression	**50 dB**
Stereo separation	
1 kHz	**40 dB**
Carrier leak	
19 kHz	**—30 dB (-35 dB, IHF)**
38 kHz	**—50 dB (-55 dB, IHF)**
Channel balance (250 Hz -6.3 kHz)	**±1.5 dB**
Limiting point	**1.2 μ V**
Bandwidth	
IF amplifier	**180 kHz**
FM demodulator	**1000 kHz**
Antenna terminal	**75 Ω (unbalanced)**

■ **AM Tuner Section**

Frequency range	
	522-1611 kHz (9 kHz steps)
	530-1620 kHz (10 kHz steps)
Sensitivity	**20 μ V, 330 μ V/m**
Selectivity	**55 dB**
IF rejection	**50 dB**

■ **Video Section**

Output voltage at 1 V input (unbalanced)	**1±0.1 Vp-p**
Maximum input voltage	**1.5 Vp-p**
Input/output impedance	**75 Ω (unbalanced)**
S-Video input	
	DVD/DVD 6CH, VCR 1, DVR/ VCR2, VCR3, TV
S-Video output	
	VCR 1, DVR/ VCR2, TV Monitor

■ **Amplifier Section**

Power output	
For E & EG only	**230V**
For EB only	**240V**
DIN 1 kHz (T.H.D. 1%)	**2 x 100 W (6 Ω)**
20 Hz - 20 kHz continuous power output both channels driven	
	2 x 80 W (6 Ω)
Total harmonic distortion	
Rated power at 20 Hz-20 kHz	**0.05% (6 Ω)**
Half power at 1 kHz	**0.03% (6 Ω)**
Power output each channel driven	
DIN 1 kHz (T.H.D. 1%)	
Front (L/R)	**100 W (6 Ω)**
Center	**100 W (6 Ω)**
Surround (L/R/BACK)	**100 W (6 Ω)**
Power bandwidth both channels driven, -3 dB	
	10Hz - 100 kHz (6 Ω, 0.9%)
Damping factor	**45 (6 Ω)**
Load impedance	
Front (L/R)	**(A or B) 4-16 Ω**
	(A and B) 8-16 Ω
Center	**6-16 Ω**

Surround (L/R/BACK)	**6-16 Ω**
Frequency response	
PHONO	**RIAA standard curve (30 Hz - 15 kHz) ±0.8 dB**
CD, MD/CD-R/RW, TV, DVD/DVD 6CH, VCR1, DVR/VCR2, VCR3, TAPE	**10 Hz-100 kHz, ±3 dB**
Input sensitivity and impedance	
PHONO	**3 mV /47 k Ω**
CD, MD/CD-R/RW, TV, DVD/DVD 6CH, VCR1, DVR/VCR2, VCR3, TAPE	**200 mV /22 k Ω**
S/N at rated power (6 Ω)	
PHONO	**70dB (IHF, A:80 dB)**
CD, MD/CD-R/RW, TV/DVD/DVD 6CH, VCR1, DVR/VCR2, VCR3, TAPE	**98dB (IHF, A:100 dB)**
Source Direct/ HQ Sound Mode	**108 dB, IHF A/Rated Power/S=2 V**
Tone controls	
BASS	**50 Hz, +10 to -10 dB**
TREBLE	**20 kHz, +10 to -10 dB**
Output voltage	
TAPE, MD/CD-R/RW, VCR1, DVR/ VCR2	**200 mV**
Channel balance (250 Hz - 6.3 kHz)	**±1 dB**
Channel separation	**55 dB**
Headphones output level and impedance	**430 mV/ 330 Ω**
Subwoofer frequency response (-6 dB)	**7-200 Hz**

■ **General**

Power supply	
For E and EG only	**AC 230 V, 50 Hz**
For EB only	**AC 230-240 V, 50 Hz**
Power consumption	**280 W**
Dimensions (W x H x D)	**430 x 158 x 377 mm**
Mass	**11.9 kg**
Power consumption in standby mode :	**2 W**

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C703 - C706, C742, C901, C904 and C1701 through a 10 Ω, 5 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid over current.
Current consumption at AC 230V, 50Hz in NO SIGNAL mode should be 200~600 mA.

2. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.

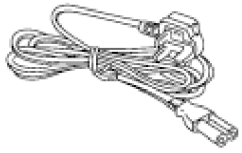
2. Determine the cause of the problem and correct it.

3. Turn on the power once again after one minute.

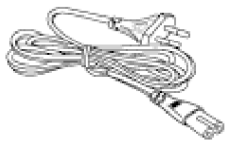
Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

3. Accessories

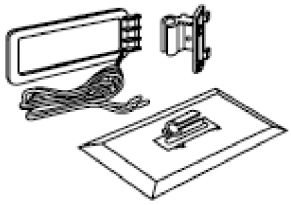
AC Main Lead (For EB only)



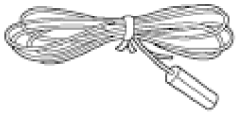
AC Main Lead (For E and EG only)



AM Loop Antenna Set

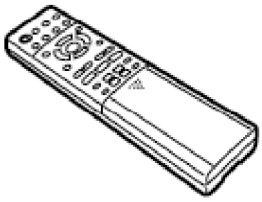


FM Indoor Antenna



Antenna plug adapter (For EB only)

Remote Control



4. Caution for AC Main Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

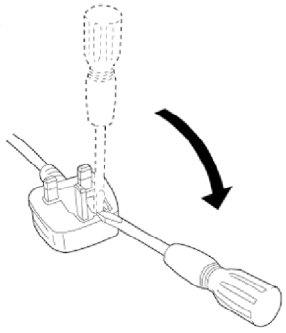
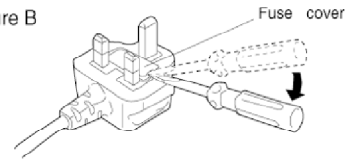


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

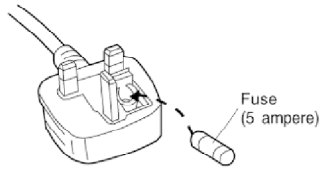
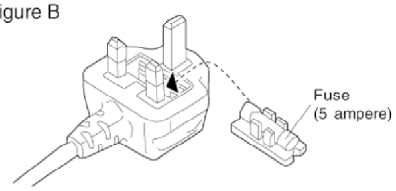


Figure B



5. Front Panel Controls

Main unit

[ENHANCED SURROUND]
For turning on the enhanced surround mode. The indicator lights when the mode is on.

[HQ SOUND MODE]
For selecting the HQ sound mode. The indicator lights when the mode is on.

[RE-MASTER]
For selecting a re-master mode. The indicator lights while a re-master mode is on.

[SOURCE DIRECT]
For selecting a source direct mode.

[WAKE]
Wake timer indicator

Standby indicator [⏻]
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

Remote control sensor

[DSP SOUND MODE]
For selecting "STEREO", "SURROUND" or "SFC".

[DOLBY PRO LOGIC Ⅱ]
For selecting a Dolby Pro Logic Ⅱ mode: MOVIE, MUSIC or PANORAMA.
Use when "DOLBY PRO LOGIC Ⅱ" lights in the SURROUND mode.

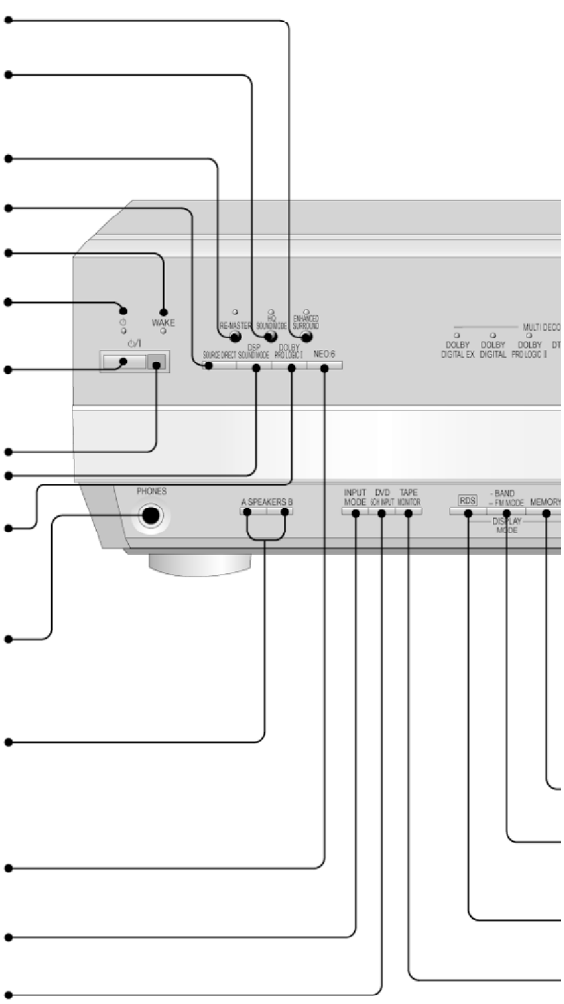
[PHONES]
Headphone jack
Plug type: 6.3 mm stereo
Avoid listening for prolonged periods of time to prevent hearing damage.
Turn the speakers off when using the headphones.

[SPEAKERS, A, B]
For selecting speakers A or B.
Turning the speakers off automatically engages the STEREO mode (when listening through headphones, for example).
If your speakers have an impedance under 6 Ω
Press and hold [A] or [B] until "LOW IMP" lights up on the display.
Note that when "LOW IMP" is on, SPEAKERS A and B cannot be used at the same time.

[NEO:6]
For selecting a DTS NEO:6 mode: CINEMA or MUSIC.
Use when "NEO:6" lights in the ENHANCED SURROUND mode.

[INPUT MODE]
For selecting AUTO, ANALOG or DIGITAL.

[DVD 6CH INPUT]
For switching between 6-channel and 2-channel DVD input.
When you select DVD 6CH, SOURCE DIRECT mode is on.



Basic operations

For your reference

- **When playing videotapes (connected to VCR 1)**
  The picture remains on the screen even if you select TAPE, CD, MD/CD-R, TUNER or PHONO.
- **Once you have set a mode (DSP, AUTO/DIGITAL/ANALOG input, or 2-channel/6-channel input) for an input source**
  That mode is engaged whenever you reselect the input source.
- **When using a graphic equalizer**
  Some distortion may occur, depending on the equalizer's settings.
- **When SPEAKERS B is on**
  The STEREO DSP SOUND mode is engaged automatically.
- **When you finish listening**
  Be sure to reduce the volume and press [⏻/I] to switch the unit to standby.
- **When DTS FIX mode is on**
  You cannot use ENHANCED SURROUND and DTS-ES signals will be played through 5.1 channels (i.e., there will be no sound from the surround back speaker).
- **When input is DIGITAL**
  The tape monitor cannot be used.

[MULTI DECODER]
Light to indicate the source's input signal and decoding format used.
DOLBY DIGITAL EX: Dolby Digital Surround EX sources
DOLBY DIGITAL: Dolby Digital sources
DOLBY PRO LOGIC Ⅱ: Dolby Pro Logic Ⅱ decoder is being used
DTS-ES: DTS-ES discrete or matrix sources
DTS: DTS sources
NEO:6: DTS NEO:6 matrix decoder is being used

[VOLUME]
Volume control.

[INPUT SELECTOR]
For selecting input.

Display

[VCR 3]
For a video camera, etc.

[TUNING, ∨, ∧, PTY SELECTOR]
TUNING;
For tuning the radio and selecting preset stations.
Press and hold until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.
PTY SELECTOR;
For changing the PTY display.

[PRESET, PTY SEARCH]
PRESET;
Press to allow preset station selection with [TUNING, ∨, ∧]
PTY SEARCH;
For starting a PTY search.

[MEMORY]
For presetting radio stations.

[-BAND, –FM MODE, DISPLAY MODE]
-BAND, –FM MODE;
For switching between AM and FM.
If reception is poor in FM, press and hold until "MONO" appears to switch to monaural mode.
DISPLAY MODE;
For changing the RDS display mode: PS, PTY or RT.

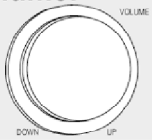
[RDS]
Press to use the RDS functions.

[TAPE MONITOR]
For monitoring sound when recording to a 3 head cassette deck. Also used when you have connected a graphic equalizer to the TAPE terminals.

4 Start play of the source.

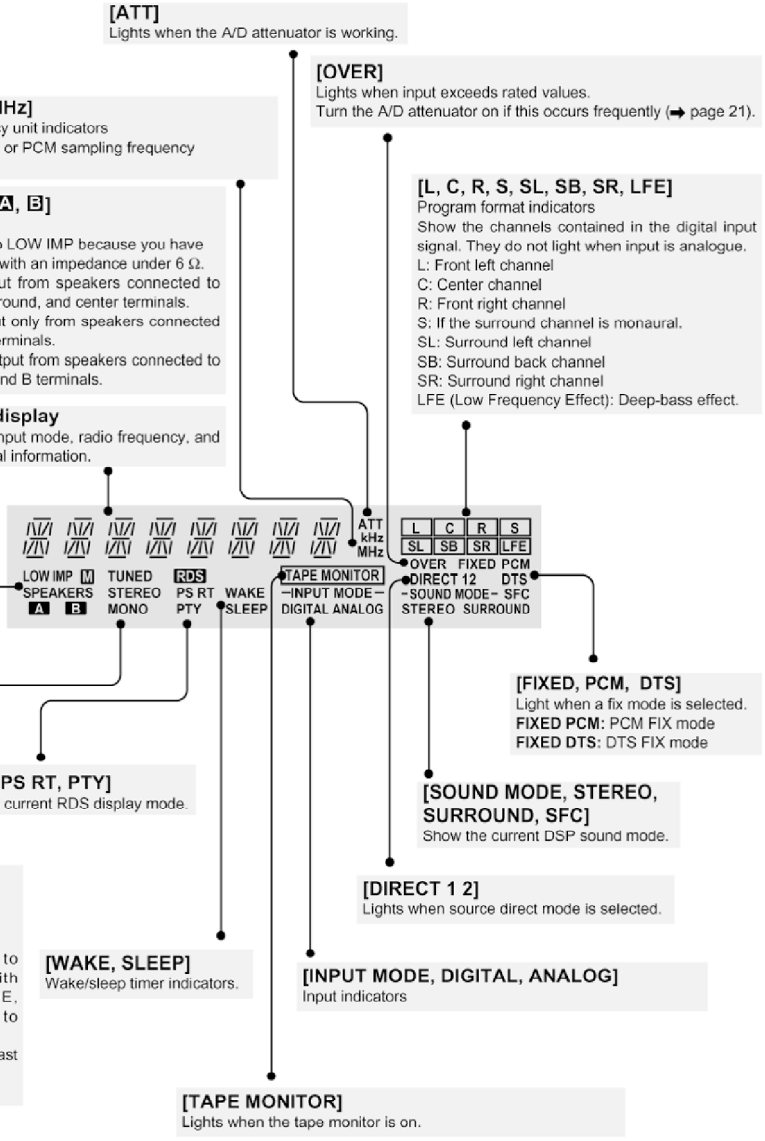
5 Select the DSP sound mode.

6 Adjust the volume.



Control guide

Display


[ATT]
Lights when the A/D attenuator is working.
[OVER]
Lights when input exceeds rated values.
Turn the A/D attenuator on if this occurs frequently (➡ page 21).
[kHz, MHz]
Frequency unit indicators
kHz: AM, or PCM sampling frequency
MHz: FM
[LOW IMP, SPEAKERS A, B]
Speaker indicators
LOW IMP: You have switched to LOW IMP because you have connected speakers with an impedance under 6 Ω.
SPEAKERS A: Sound is output from speakers connected to the front A, surround, and center terminals.
SPEAKERS B: Sound is output only from speakers connected to the front B terminals.
SPEAKERS A B: Sound is output from speakers connected to the front A and B terminals.
[L, C, R, S, SL, SB, SR, LFE]
Program format indicators
Show the channels contained in the digital input signal. They do not light when input is analogue.
L: Front left channel
C: Center channel
R: Front right channel
S: If the surround channel is monaural.
SL: Surround left channel
SB: Surround back channel
SR: Surround right channel
LFE (Low Frequency Effect): Deep-bass effect.
General display
Shows the input mode, radio frequency, and other general information.
ATT
kHz
MHz
L C R S
SL SB SR LFE
OVER FIXED PCM
DIRECT 12 DTS
SOUND MODE SFC
STEREO SURROUND
LOW IMP M
SPEAKERS
A B
TUNED
STEREO
MONO
RDS
PS RT
PTY
WAKE
SLEEP
TAPE MONITOR
INPUT MODE
DIGITAL ANALOG
[FIXED, PCM, DTS]
Light when a fix mode is selected.
FIXED PCM: PCM FIX mode
FIXED DTS: DTS FIX mode
[RDS, PS RT, PTY]
Show the current RDS display mode.
[SOUND MODE, STEREO, SURROUND, SFC]
Show the current DSP sound mode.
[TUNED, STEREO, MONO, M]
Radio indicators
TUNED: A station is tuned.
MONO: You have switched to monaural mode with [-BAND, –FM MODE, DISPLAY MODE] to improve reception.
STEREO: A stereo FM broadcast is tuned.
M: Flashes during presetting.
[DIRECT 1 2]
Lights when source direct mode is selected.
[WAKE, SLEEP]
Wake/sleep timer indicators.
[INPUT MODE, DIGITAL, ANALOG]
Input indicators
[TAPE MONITOR]
Lights when the tape monitor is on.

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Remote control

Buttons not explained on this page are used only to operate other equipment. Refer to the separate Remote Control Operation Guide for details.

[⏻]
Standby/on button

[SOUND MODE]
For selecting "STEREO", "SURROUND" or "SFC"

[SUBWOOFER]
For selecting subwoofer level.
Adjust the level in 5 steps
SW MIN, SW 5, SW 10, SW 15, and SW MAX.
Select SW --- to stop output.

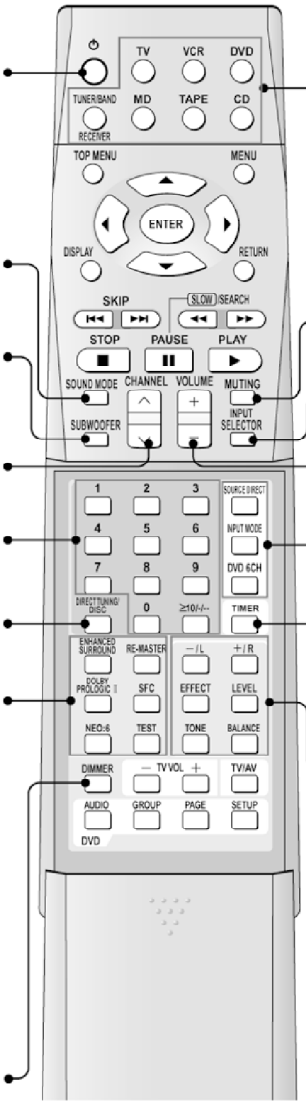
[CHANNEL, ∧, ∨]
For selecting preset radio channels.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.
[≥10/-/--]
To enter two digit channels.

[DIRECT TUNING/DISC]
To enable selection of radio stations by frequency.

[ENHANCED SURROUND]
For turning on the enhanced surround mode.
[RE-MASTER]
For selecting a re-master mode.
[DOLBY PRO LOGIC Ⅱ]
For selecting a Dolby Pro Logic Ⅱ mode: MOVIE, MUSIC or PANORAMA.
Use when "DOLBY PRO LOGIC Ⅱ" lights in the SURROUND mode.
[SFC]
For selecting SFC modes.
[NEO:6]
For selecting a DTS NEO:6 mode: CINEMA or MUSIC.
Use when "NEO:6" lights in the ENHANCED SURROUND mode.
[TEST]
To start the speaker test signal.

[DIMMER]
For dimming the unit's display.



[TV, VCR, DVD, TUNER/BAND RECEIVER, MD, TAPE, CD]
Input mode and remote control mode buttons.
These buttons light when you press other buttons to indicate the current remote control mode.

[MUTING]
To mute the volume.

[INPUT SELECTOR]
To select input source.

[VOLUME, +, –]
To adjust the volume.

[SOURCE DIRECT]
For selecting a source direct mode.
[INPUT MODE]
For selecting AUTO, ANALOG or DIGITAL.
[DVD 6CH]
For switching between 6-channel and 2-channel DVD input.
When you select DVD 6CH, SOURCE DIRECT mode is on.

[TIMER]
For setting the wake/sleep timer.

[–/L, +/R]
First select EFFECT, LEVEL, TONE or BALANCE, then press [–/L] or [+/R] to adjust.
[EFFECT]
Use when adjusting Dolby Pro Logic Ⅱ, DTS NEO:6, or SFC effects
[LEVEL]
Use when adjusting speaker level.
[TONE]
To adjust the bass and treble.
[BALANCE]
To adjust the front speaker balance.

For your reference

- **When using the subwoofer**
  You cannot adjust subwoofer level while the SOURCE DIRECT mode is on or if DVD 6CH INPUT is selected.
  Sound can be distorted if you raise the volume while subwoofer level is high. Reduce subwoofer level if this occurs.
- **When muting is on**
  Muting is also canceled when the unit is turned off.

6. Remote Control

Panasonic®

Remote Control Operation Guide

Model No. **EUR7502XB0**

Welcome the world of Home Theater.

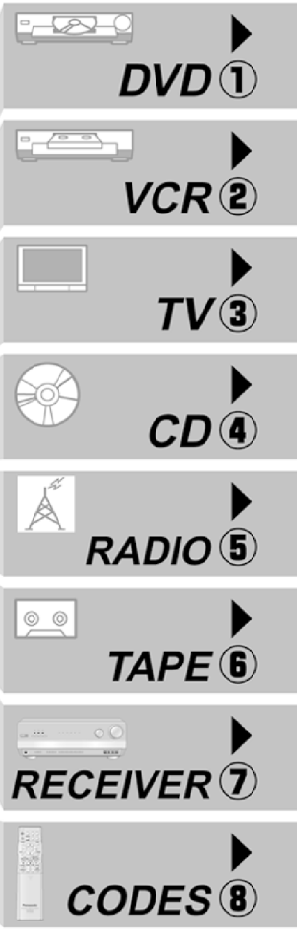
This remote control is the key to your home theater experience.

RECEIVER

First, turn on the receiver.

Now, operate your other Home Theater components

You may need to enter a code to operate some equipment.



Actual operations depend on your equipment and software.
Be sure to read the instructions for the receiver and your other components.

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RQT6255-Y H0402HM0

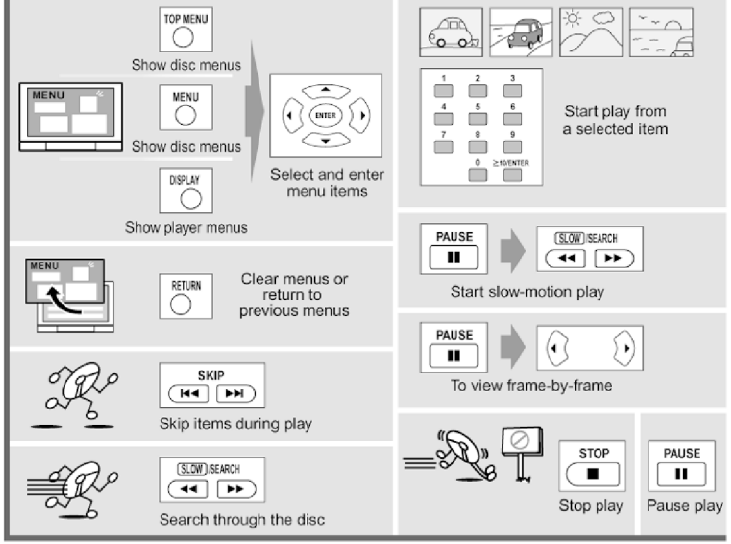
① DVD

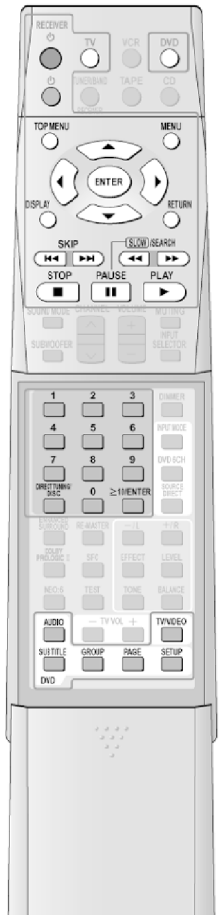
Watching DVDs

Switch on

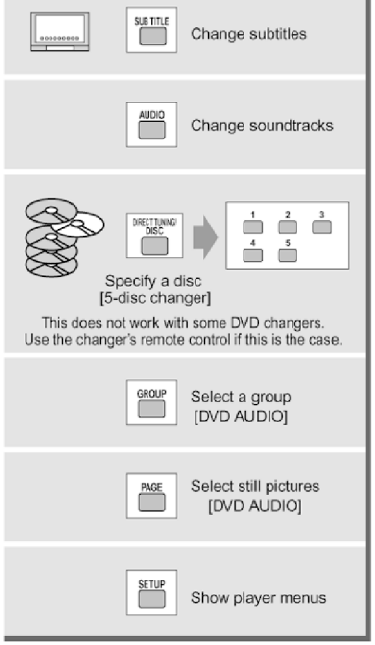
Switch off

Operating the DVD player





Operating the DVD player



② VCR

Watching videotapes

Switch on

Switch on the television and select input

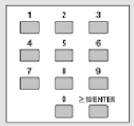
Switch on the player and start play

Switch off

Operating the video deck

Rewind or fast-forward

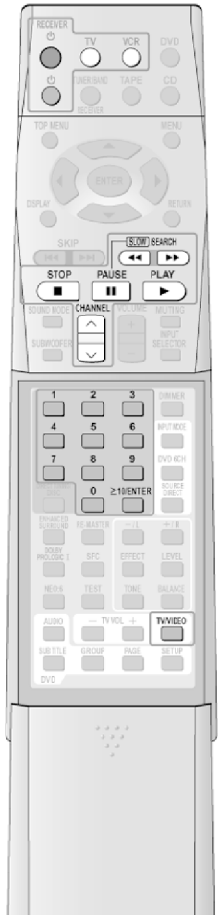
Change channels sequentially



Select channels directly

Stop play

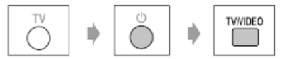
Pause play



③ TV

Watching TV

Switch on

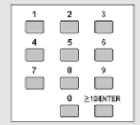


Switch on the television and select input

Switch off

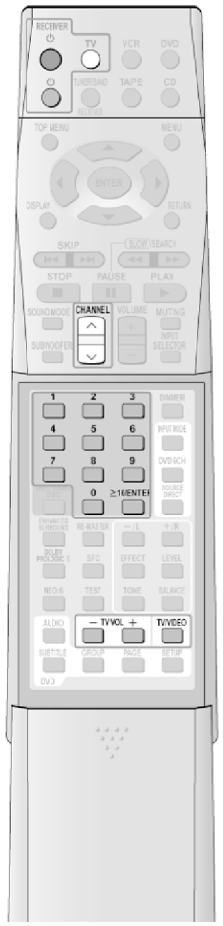
Operating the TV

Change channels sequentially



Select channels directly

Adjust the volume



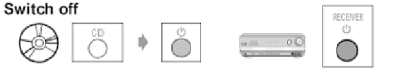
④ CD

Listening to CDs

Switch on

Switch on the player and start play

Switch off

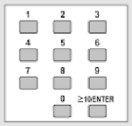


Operating the CD player

Skip tracks during play

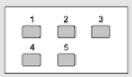
Search through the disc

Start play from a selected track

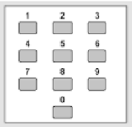


Stop play

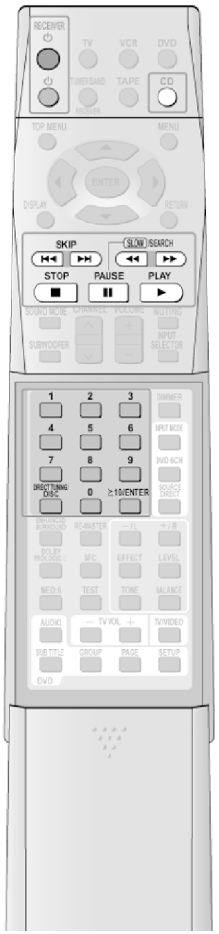
Pause play



Specify a disc
[3- or 5-disc changer]



Start play from a specified disc
[MEGA CD changer] (holds more than 50 discs)



⑤ RADIO

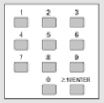
Listening to the radio

Select FM or AM

Switch off

Operating the radio

Change preset channels sequentially



Select preset channels directly

Select radio stations by frequency

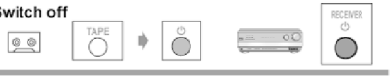
⑥ TAPE

Listening to tapes

Switch on

Switch on the deck and start play

Switch off

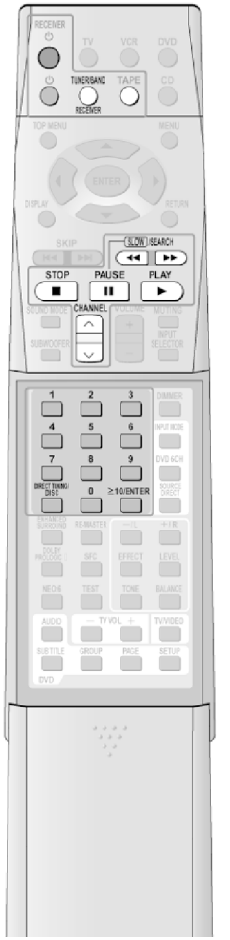


Operating the tape deck

Rewind or fast-forward

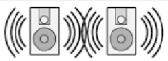
Stop play

Pause play



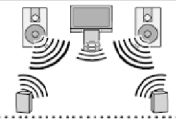
⑦ RECEIVER

STEREO MODE



Select STEREO — SOUND MODE

SURROUND MODE



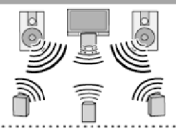
Select SURROUND — SOUND MODE

Select a Dolby Pro Logic Ⅱ mode: MOVIE, MUSIC or PANORAMA — DOLBY PROLOGIC Ⅱ

When you select MUSIC or PANORAMA — EFFECT → −/L, +/R

Change the sound effect

ENHANCED SURROUND MODE



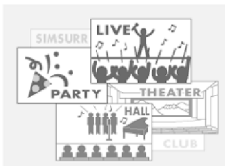
Select ENHANCED SURROUND — ENHANCED SURROUND

Select a DTS NEO:6 mode: CINEMA or MUSIC — NEO:6

When you select MUSIC — EFFECT → −/L, +/R

Change the sound effect

SFC MODE



Select HALL, CLUB, LIVE, THEATER, SIM SURR or PARTY — SFC

Select the speaker channel and adjust its output level — LEVEL → −/L, +/R

Change the delay time — EFFECT → −/L, +/R

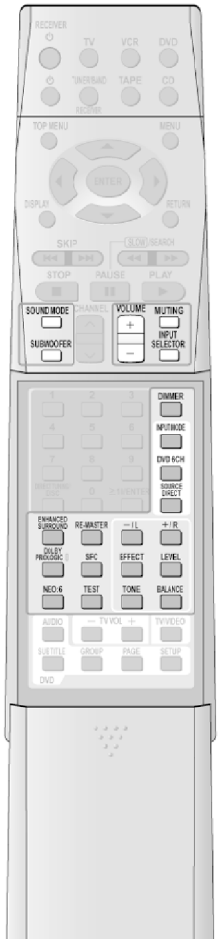
Adjusting speaker channel balance

TEST → LEVEL → −/L, +/R → TEST

Start a test signal

Select the speaker channel and adjust its output level

Stop the test signal



Other functions

Mute the volume — MUTING

Adjust subwoofer output level — SUBWOOFER

Adjust the volume

Select the input source — INPUT SELECTOR

Select DVD 6CH INPUT — DVD 6CH

Select AUTO, ANALOG or DIGITAL — INPUT MODE

Select SOURCE DIRECT 1 or 2 — SOURCE DIRECT

Select a re-master effect: EFFECT 1, 2, 3 or 4 — RE-MASTER

Select BASS or TREBLE and adjust its level — TONE → −/L, +/R

Adjust the front L/R channel balance — BALANCE → −/L, +/R

Dim the display — DIMMER

⑧ CODES

This remote control can operate Panasonic and Technics audiovisual equipment that have remote control sensors. You may need to change the remote control code.
It can also operate some other brands of televisions, video cassette players, and DVD players. Check the table for the brand and enter the code as follows.

Changing the codes

TV VCR DVD — Press and hold the button corresponding to the equipment

Enter the first digit

Enter the second digit

The remote control outputs the on/off signal.
If the code is correct, the equipment turns on or off.
If it doesn't, try entering another code.

- Note that this remote control cannot operate some equipment and that it may not be able to perform some operations.
- Reenter the codes after you change the batteries.

Code table

	TV	VCR	DVD
Panasonic	01,02,26	01,02,09,33	01
Denon	–	–	01,17
Ferguson	–	–	02
Fisher	14	13,14,15 18,34	–
Funai	–	08,30	–
G.E.	02,03,07,09	02,03,11	–
GoldStar	07,15	27	–
Hitachi	05,07	09,10,11	11
JVC	12	19,25,31 38,39,40	09
Kenwood	–	–	15
LXI	03,06,07 10,14,15	10,13,14 15,18,27,30	–
Magnavox	06,07,11 15,22	02,09,12	–
Mitsubishi	07,15,16,21	21,22,28,29	06
NEC	07,15	19,25,31,38	–
Nordmende	–	–	02
Philco	06,07	02,09,12,30	–
Philips	06	02,09,12	04,16
Pioneer	02,10,19	09	03
Quasar	02	01,02,09,33	–
Raite	–	–	13
RCA	03,07,09 13,23,24,25	02,03,04 09,10,11 12,23,24,26	02
Saba	–	–	02
Sampo	–	–	14
Samsung	–	–	10
Sanyo	14	14,18,34	–
Sharp	08,21	16,17	08
Shintom	–	32	–
Sony	04	05,06,07 35,36,37	05
Sylvania	06,07,15	02,09,12,30	–
Symphonic	17	30	–
Technics	–	–	01
Thomson	–	–	02
Toshiba	10,21	23,24	04
Yamaha	–	–	01
Zenith	18,20	20	07,12

7. Disassembly and Main Component Replacement Procedures

“ATTENTION SERVICER”
Some chassis components maybe have sharp edges. Be careful when diassembling and servicing.

1. This section describes procedures for checking the operation of

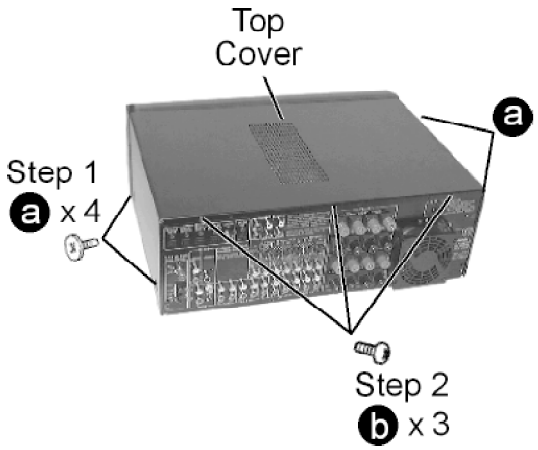
the major printed circuit boards and replacing the main components.

2. **For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

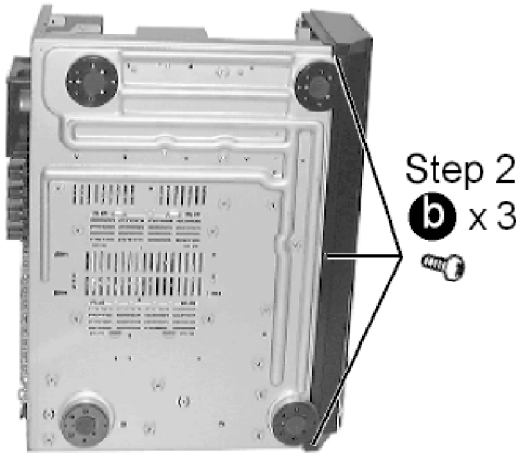
Content

- Disassembly Procedure for each major P.C.B.
- Main Component Replacement Procedures
1. Replacement of the Power IC and Regulator Transistor
2. Installation of the bottom cover after replacement

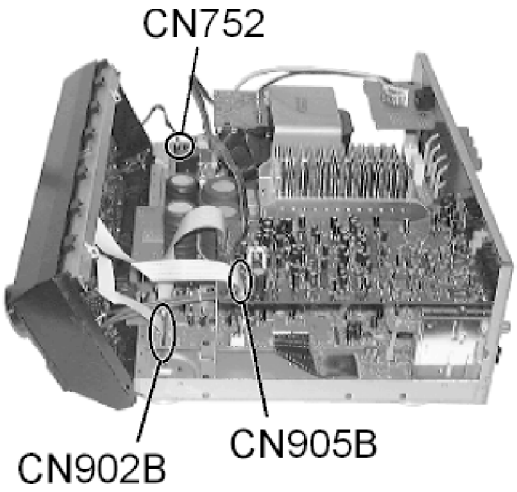
7.1. Disassembly Procedure for each major P.C.B.



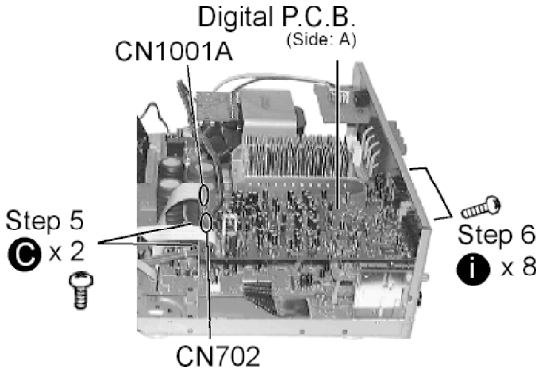
Step 1 & 2 Unscrew and remove top cabinet as shown.



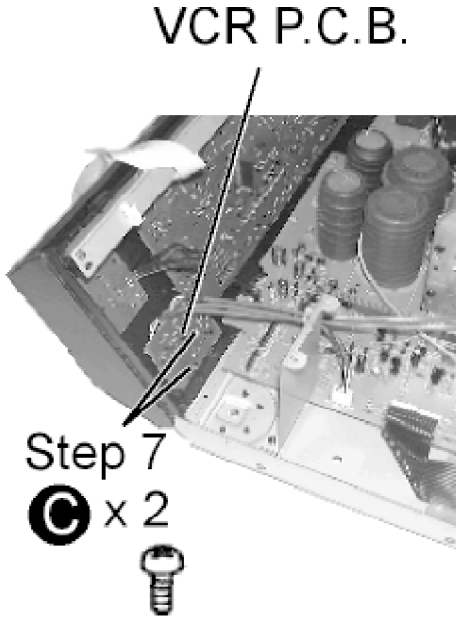
Step 3 Remove all the screws.



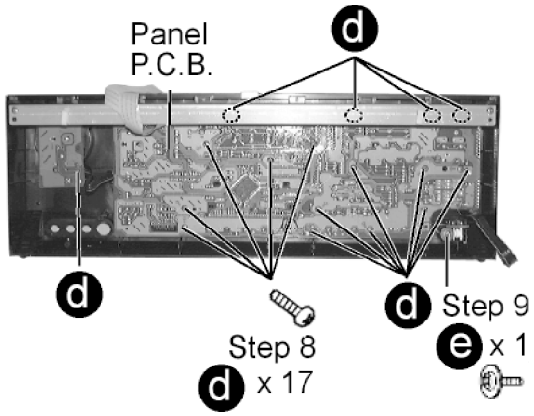
Step 4 Release the connector CN752, CN902B & CN905B.



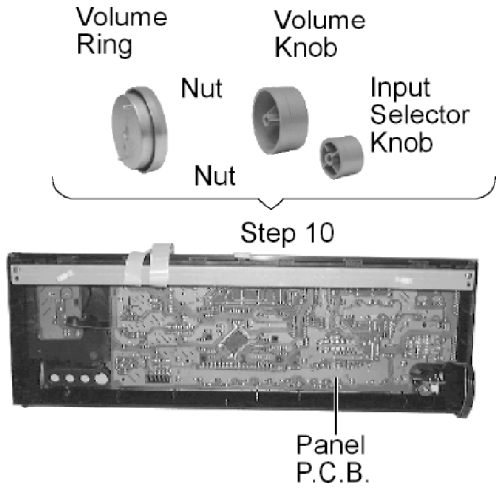
Step 5 Remove 2 screws and disconnect connector CN1001A and CN702.
Step 6 Remove 8 screws at rear panel and release Digital P.C.B.



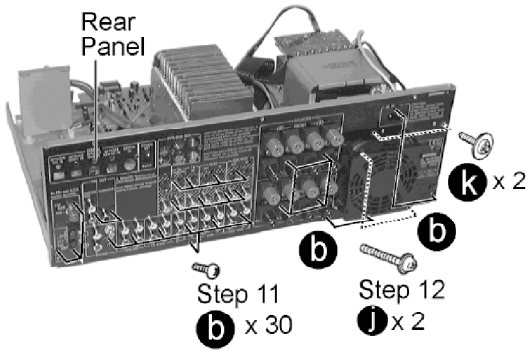
Step 7 Remove 2 screws and release VCR P.C.B..



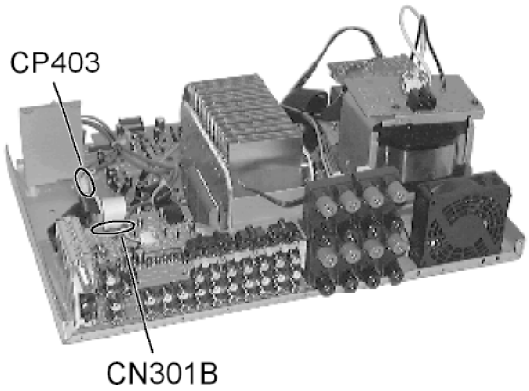
Step 8 & 9 Remove all the screws.



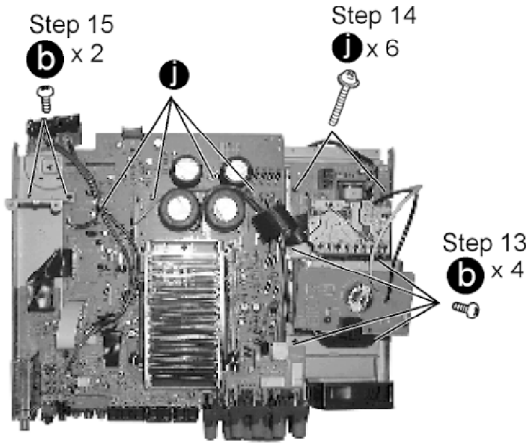
Step 10 Remove the Selector knob and Volume knob, Unscrew the nut and remove the Volume ring.



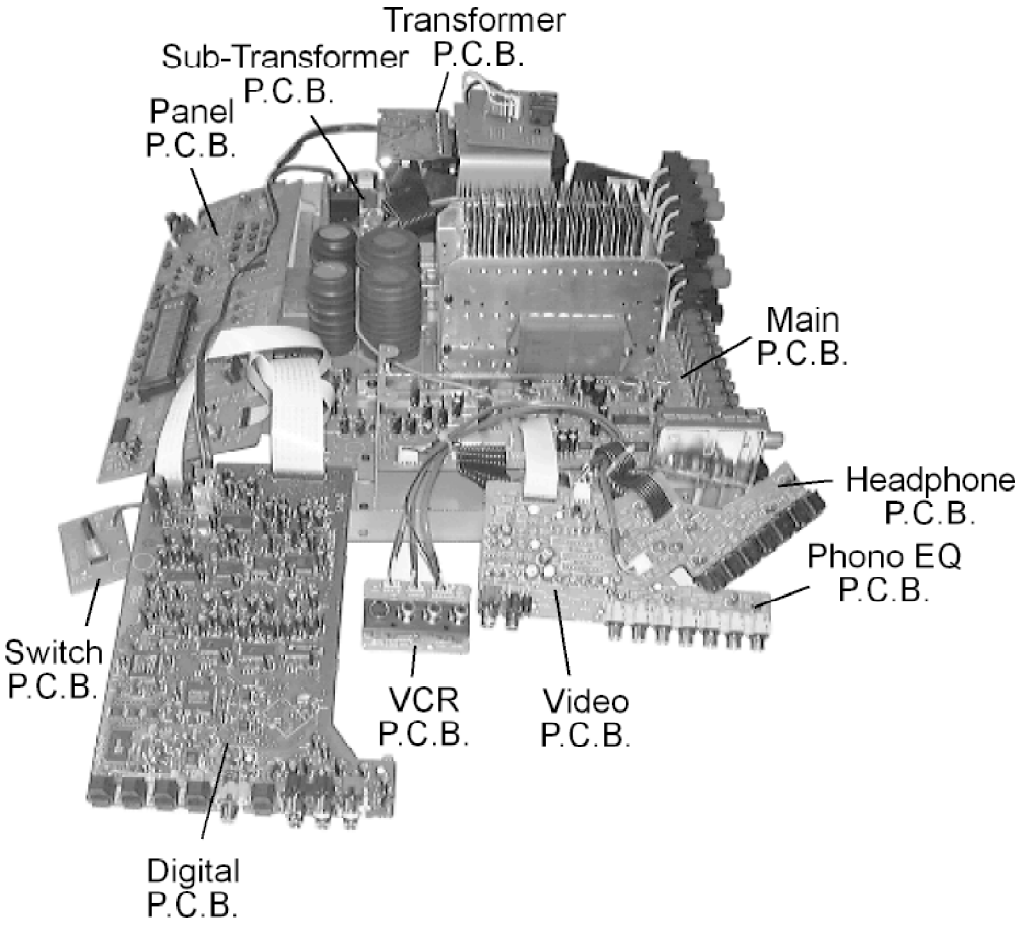
Step 11 & 12 Remove all screws.



Release connector CP403 and CN301B. Remove VCR, S-Video and Video P.C.B..



Step 15 & 16 Remove all screws.

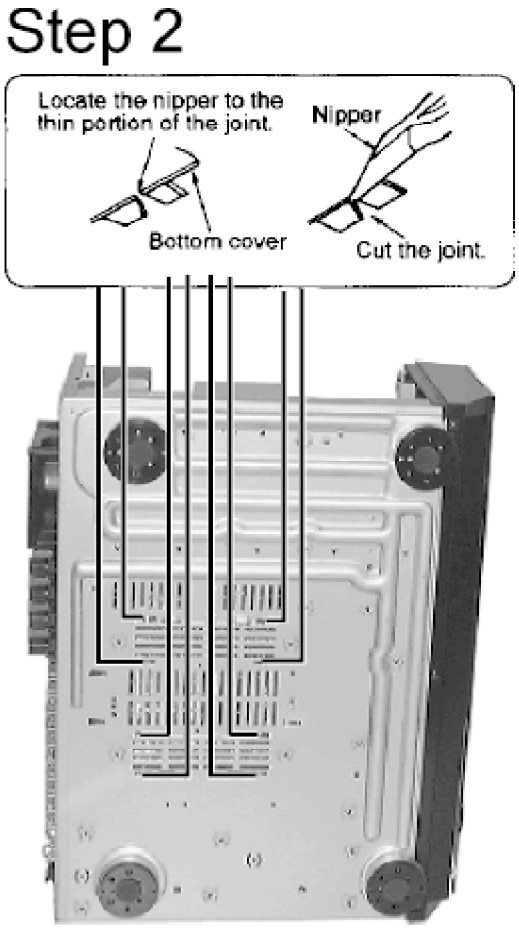


Reconnect all wires and connectors to test all P.C.B..

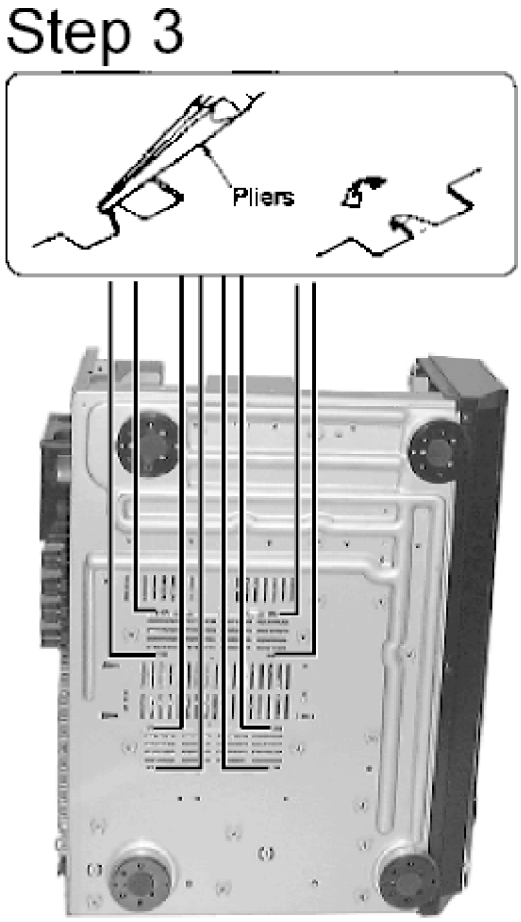
7.2. Main Component Replacement Procedures

7.2.1. Replacement of the Power IC and Regulator Transistor

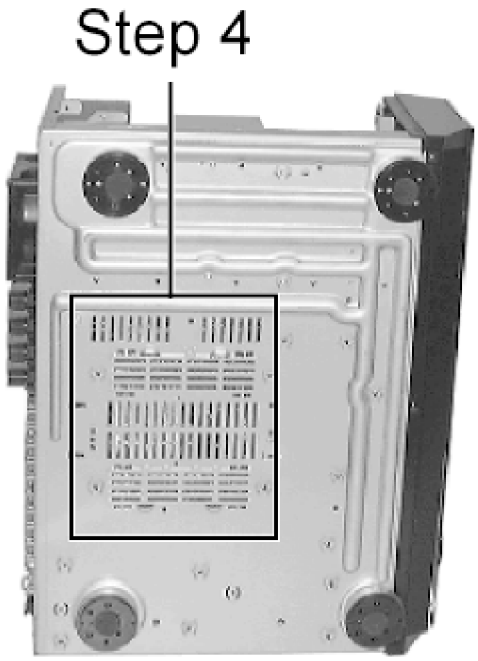
Step 1 Remove the top cabinet.



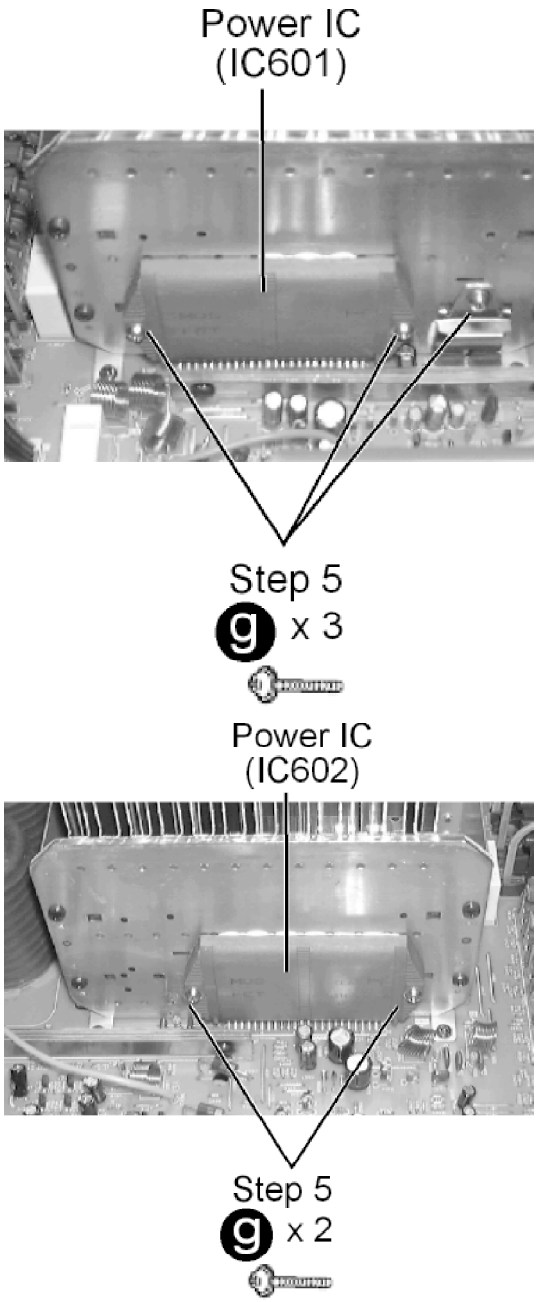
Step 2 Cut the joints as shown below. (8 joints)



Step 3 Fold the joints. (8 joints)

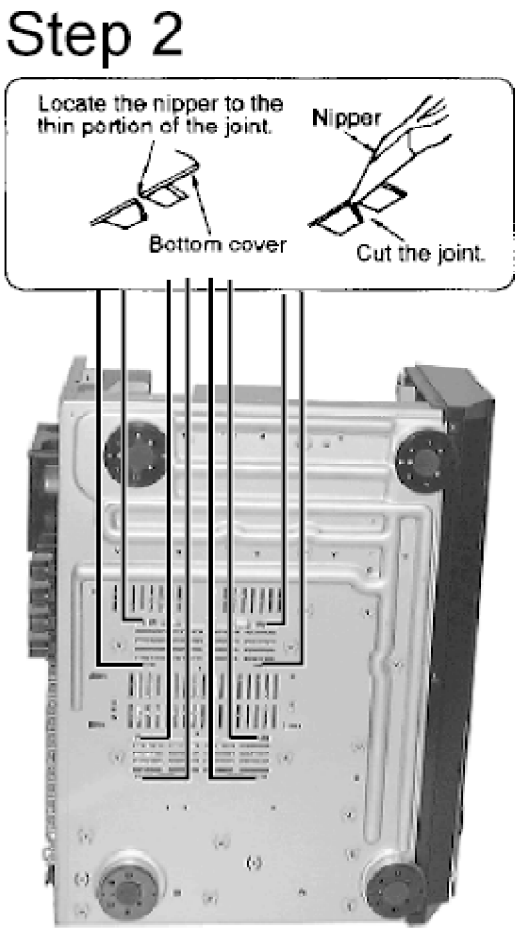


Step 4 Desolder the terminals of Power IC and Regulator Transistor.



Step 5 Remove all the screws.

7.2.2. Installation of the bottom cover after replacement



Step 1 Upset the bottom cover.
Step 2 Align the ribs of bottom cover into the bugs.
Step 3 Prepare the screws to fix the bottom cover.

8. Self-Diagnostic Function

8.1. Self-Diagnostic Function and Service Mode

8.1.1. Display Content

Item	Abnormal Status	Error Display
Low Frequency	Abnormal power amp output	F61
	Abnormal communication between peripheral LST and Micro Computer	F70
Power Supply Display	Abnormal Stabilized power supply	F76

9. Type Illustrations of ICs, Transistors & Diodes

10. Terminal Functions of ICs

- IC901 (C2BBGE000638) MICRO COMPUTER

Pin No.	Mark	I/O	Function
1~2	KEY1~KEY2	I	Key Input 1~2
3	THM/OVLD1	I	Overload Detect 1
4	THM/OVLD2	I	Overload Detect 2
5	No Use	-	-
6	No Use	-	-
7	SEL_ENCD1	I	Input Selector Encoder 1
8	SEL_ENCD2	I	Input Selector Encoder 2
9	REMOTE	I	Remote Control Input
10	RESET	-	Reset Input
11	RELAY	O	Power Relay Control
12	S_DET	I	Power Supply Short Detect
13	GND	-	GND
14	OSC_IN	-	Oscillator Input (4.00 MHz)
15	OSC_OUT	-	Oscillator Output (4.00 MHz)
16	Vdd (+5V)	-	Power Supply (+5V)
17	SD	I	SD Signal Detect Input
18	IF_DATA	I	IF Data Input
19	TNR_DT	O	Tuner Control (Data)
20	TNR_CK	O	Tuner Control (Clock)
21	TNR_CE	O	Tuner Control (Chip Enable)
22	HOLD	I	Power Down Detection
23	FAN_CTRL	O	Cooling Fan Control
24	No Use	-	-
25	LED_DT	O	LED DRIVER Control - Data
26	LED_CK	O	LED DRIVER Control - Clock
27	LED_ST	O	LED DRIVER Control - Strobe
28	Vee (-22V)	-	Power Supply for FLD
29	No Use	-	-
30-50	SEG21- SEG1	O	FLD Segment Output
51-60	DIG1-DIG10	O	FLD Digit Output
61	SP_B	O	Speaker B Control Output
62	SP_A	O	Speaker A Control Output
63	S/C_SP	O	S & C Speaker Control Output
64	AF_MUTE	O	AF Muting Output
65	INIT_IN	I	Initializing Diode Input

65	INIT_IN	I	Initializing Diode Input
66	RDS_CE	O	RDS CE Control Output
67	RDS_DO	O	RDS DO Control Output
68	RDS_CK	O	RDS CK Control Output
69	RDS_DI	I	RDS DI Control Output
70	COM_CK	I	Communication Port (CLOCK)
71	COM_DO	O	Communication Port (Data Out)
72	COM_DI	I	Communication Port (Data Input)
73	Avss	-	-
74	Vref	-	Power Supply for A/D Converter
75	LIMITER	O	Power Limiter Control
76	COM_ REQM	O	Communication Port (REQM)
77	WAKE	L	WAKE LED control
78	CMOS_REQS	I	Communication Port (REQS)
79~80	No Use	-	-

11. Block Diagram

12. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology.)
Notes:

S953	Speaker A Switch		
S954	Source Direct Swtich		
S955	Sound Mode Switch		
S956	Pro Logic Switch		
S957	DTS Neo: 6 Switch		
S958	Re-Master Switch		
S959	Sound Zoom Switch		
S960	Ex Surr Switch		
S961	DVD 6CH Input Switch		
S962	Power Switch		
S963	Speaker B Switch		
S964	Band Switch		
S965	FM mode Switch		
S966	Tuning Down Switch		
S967	Tuning Up Switch		
S968	Search/Memory Switch		
S969	Preset Switch		
S970	Input Mode Switch	VR901	Vr Rotary Encoder
S971	Tape Monitor Switch	VR902	Vr Rotary Encoder

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

< > ...FM

- Importance safety notice:

Components identifed by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.

- Do not touch the pins of IC, LSI or VLSI with fingers directly.

13. Printed Circuit Board

14. Wiring Connection Diagram

15. Parts Location and Replacement Parts List

Notes:

- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of these components, be sure to use only manufacturers's specified parts shown in the parts list.

- The parenthesized indications in the Remarks column specify the areas or color. (Refer to the cover page for area or color.)
Parts without these indications can be used for all areas.

- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads(pF); Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000(ohms).

- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws govening part and product retention. After the end of this period, the assembly will no longer be available.

- [M] indicates in the Remarks columns indicates parts that are supplied by MESA.

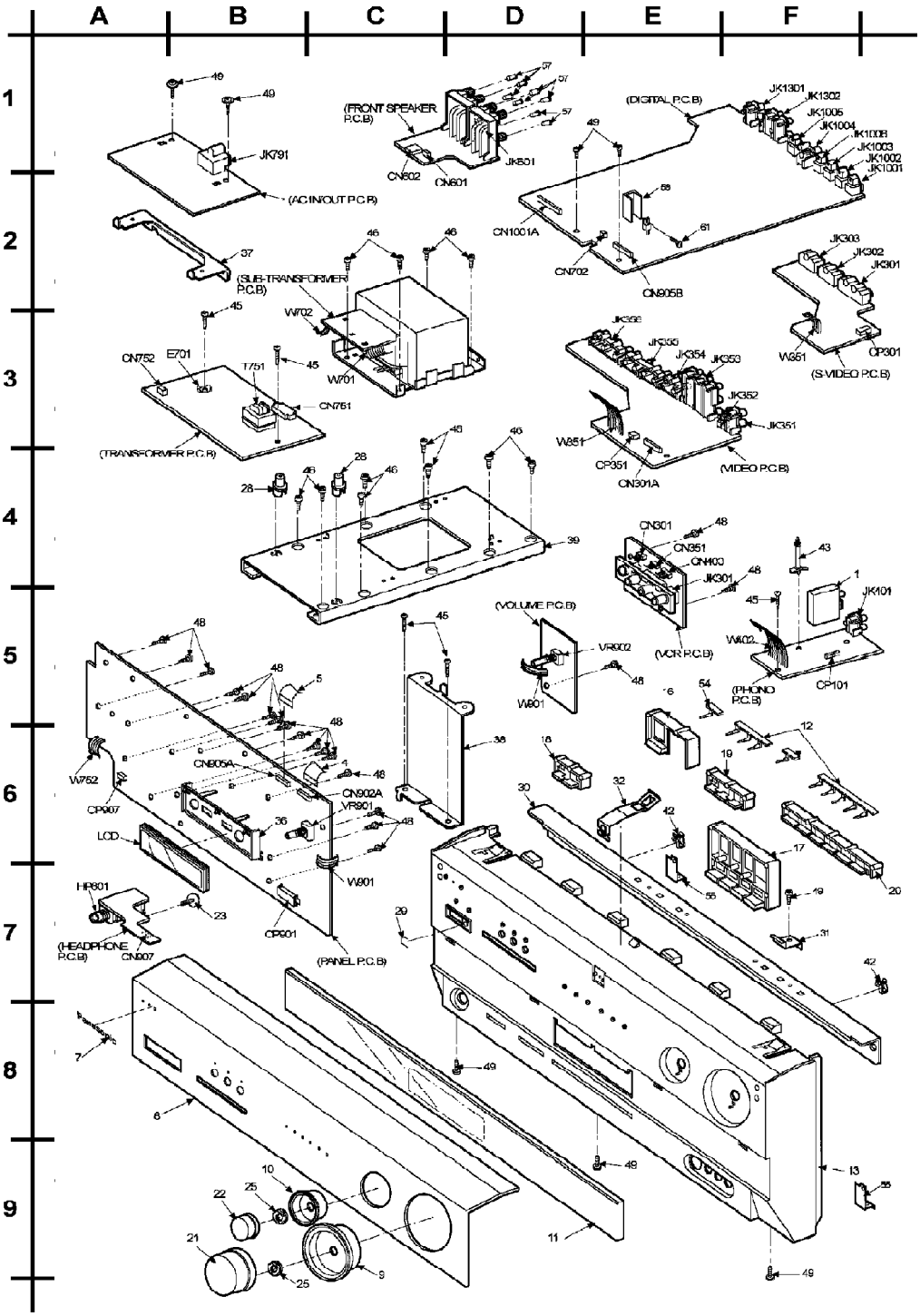
- The "(SF)" mark denotes the standard part.

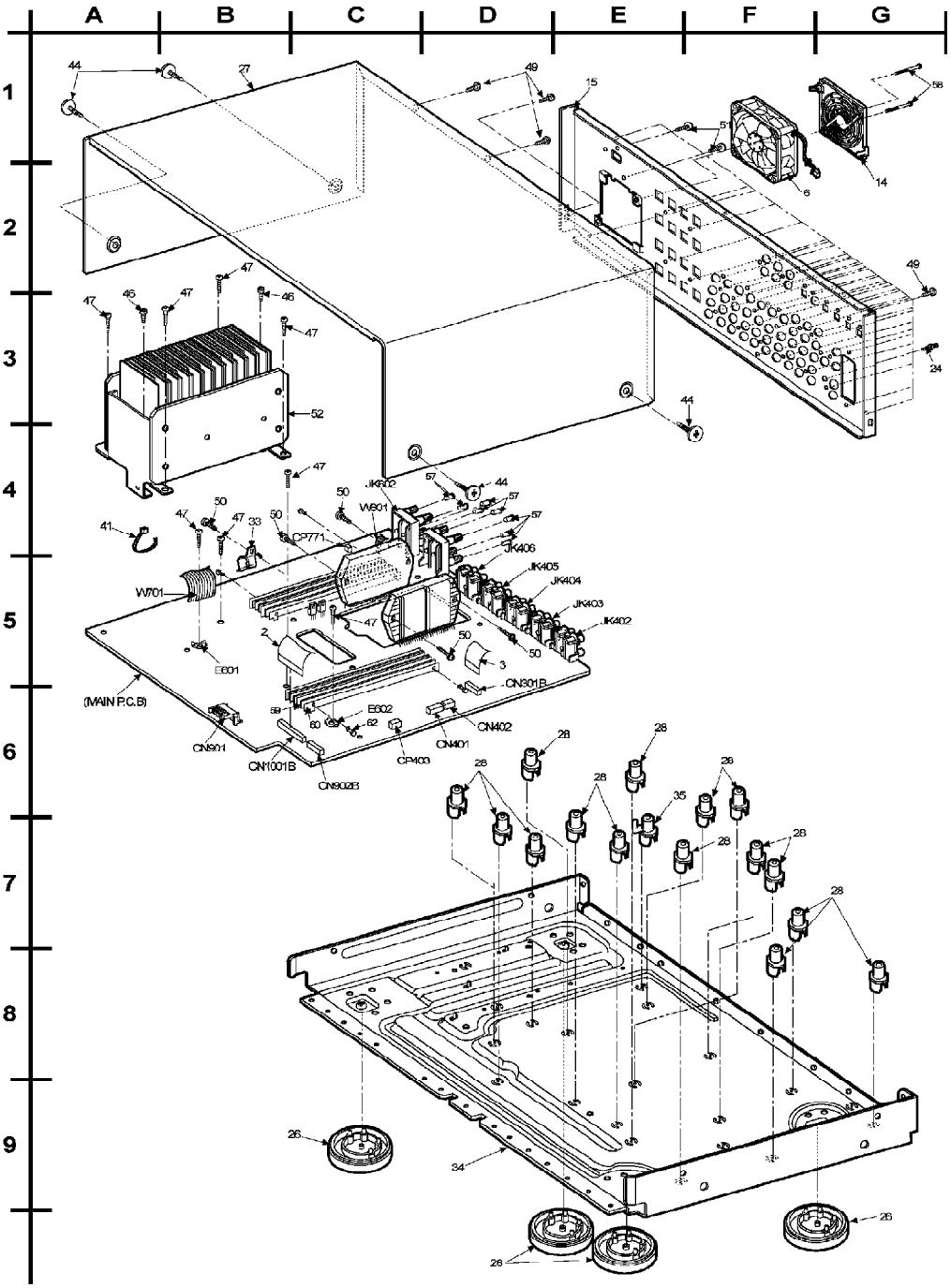
- Reference for O/I book languages are as follows :

Ar : Arabic	Cf : Canadian French	Cz : Czech	Da : Danish
Du : Dutch	En : English	Fr : French	Ge : German
It : Italian	Ko : Korean	Po : Polish	Ru : Russian
Sp : Spanish	Sw : Swedish	Co : Traditional Chinese	Cn : Simplified Chi

15.1. Cabinet

15.1.1. Cabinet Parts Location





15.1.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RAN0002EM	TUNER MODULE	[M]
2	REE1141	30P FFC WIRE	[M]
3	REE1142	18P FFC WIRE	[M]
4	REE1143	14P FFC WIRE	[M]
5	REE1144	15P FFC WIRE	[M]
6	REM0080B	FAN UNIT	[M]
7	RGB0036-2N	PANASONIC BADGE	[M]
8	RGG0209A-S	AL PANEL	[M]
9	RGK1474-S	VOLUME RING	[M]
10	RGK1475-S	SELECTOR RING	[M]
11	RGK1476A-Q	HALF MIRROR PLATE	[M]
12	RGL0576-Q	LED LIGHT	[M]
13	RGP0899A-S	GRILL	[M]
14	RGQ0231-K	FAN COVER	[M]
15	RGR0320B-A	REAR PANEL	[M]EG E
15	RGR0320B-B	REAR PANEL	[M]EB
16	RGU2063-S	POWER BUTTON	[M]
17	RGU2064-S	6CH. BUTTON	[M]
18	RGU2065-S	SPEAKER BUTTON	[M]
19	RGU2066-S	MONITOR BUTTON	[M]
20	RGU2067-S	BAND BUTTON	[M]
21	RGW0380-S	VOLUME KNOB	[M]
22	RGW0381-S	SELECTOR KNOB	[M]
23	RHD26016	SCREW (PHONE JACK)	[M]
24	RHD30070	EARTH TERMINAL	[M]
25	RHN90001	M9 NUT	[M]
26	RKA0079A-A	LEG UNIT	[M]
27	RKM0373A-S	TOP CABINET	[M]
28	RKQ0089A	PCB SUPPORT	[M]
29	RKW0659-S	SENSOR WINDOW	[M]
30	RMA1323-1	SUPPORT BAR [A]	[M]
31	RMC0158-S	TRANSISTOR HOLDER	[M]
32	RMC0464	EARTH PLATE	[M]
33	RMC0518	PANEL EARTH	[M]
34	RMK0391	BOTTOM CHASSIS	[M]
35	RMN0392	PCB SUPPORT	[M]
36	RMN0686	FL HOLDER	[M]
37	RMN0687	POWER PCB SUPPORT	[M]
38	RMN0688	DIGITAL PCB SUPPORT	[M]
39	RMN0689	TRANS.ANGLE	[M]
41	SHR301	WIRE CRAMPER	[M]
42	SHRD163	CORD HOLDER	[M]
43	SHRG9260A	VIDEO PCB SUPPORT	[M]
44	SNE2129-2	SCREW (CABINET)	[M]
45	XTB3+20JFZ	SCREW	[M]
46	XTB3+8FFZ	SCREW	[M]
47	XTB3+8JFZ	SCREW	[M]
48	XTBS26+10J	SCREW	[M]
49	XTBS3+8JFZ1	SCREW	[M]
50	XTW3+15T	SCREW	[M]
51	XTW3+8PFZ	SCREW	[M]
52	RXX0221	HEAT SINK UNIT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
54	RGL0602-Q	LED LIGHT	[M]
55	RMC0519	CHASSIS EARTH	[M]
56	SMY944	HEAT SINK	[M]
57	RMR1346-K	BACK CAVITY	[M]
58	XTB3+35JF2	FAN SCREW	[M]
59	RMZ0514	INSULATOR	[M]
60	RMA1327	BUS BAR	[M]
61	XYN3+F8	SCREW	[M]
62	RMR1312-K	PLASTIC RIVET	[M]

15.2. Components Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3313A-T	DIGITAL P.C.B.(SIDE: A)	[M](RTL)
	REP3313A-T	DIGITAL P.C.B.(SIDE: B)	[M](RTL)
	REP3311B-M	MAIN P.C.B.	[M](RTL)
	REP3312B-S	PANEL P.C.B.	[M](RTL)
	REP3312B-S	HEADPHONE P.C.B.	[M](RTL)
	REP3314B-P	FRONT SPEAKER P.C.B.	[M](RTL)E/EG
	REP3314C-P	FRONT SPEAKER P.C.B.	[M](RTL)EB
	REP3314B-P	VOLUME P.C.B.	[M](RTL)E/EG
	REP3314C-P	VOLUME P.C.B.	[M](RTL)EB
	REP3314B-P	PHONO EQ P.C.B.	[M](RTL)E/EG
	REP3314C-P	PHONO EQ P.C.B.	[M](RTL)EB
	REP3311B-M	SUB-TRANSFORMER P.C.B.	[M](RTL)E/EG
	REP3314B-P	TRANSFORMER P.C.B.	[M](RTL)E/EG
	REP3314C-P	TRANSFORMER P.C.B.	[M](RTL)EB
	REP3314B-P	S-VIDEO P.C.B.	[M](RTL)E/EG
	REP3314C-P	S-VIDEO P.C.B.	[M](RTL)EB
	REP3314B-P	AC IN/OUT P.C.B.	[M](RTL)E/EG
	REP3314C-P	CC IN/OUT P.C.B.	[M](RTL)EB
	REP3312B-S	VCR P.C.B.	[M](RTL)
	REP3314B-P	VIDEO P.C.B.	[M](RTL)E/EG
	REP3314C-P	VIDEO P.C.B.	[M](RTL)EB
		INTEGRATED CIRCUITS	
IC301	C1AB00001588	IC VIDEO SELECTOR	[M]
IC302	C1AB00001588	IC VIDEO SELECTOR	[M]
IC354	C0ABBB000125	IC OP AMP	[M]
IC355	C1AB00001588	IC VIDEO SELECTOR	[M]
IC356	C0ABBB000125	IC OP AMP	[M]
IC401	TC9162AN	IC SELECTOR	[M]
IC402	C0AABB000086	IC OP AMP	[M]
IC403	TC9163AN	IC SELECTOR	[M]
IC451	AN6558F	IC OP AMP	[M]
IC601	RSN310R37A-P	IC 3 CH HIC	[M]
IC602	RSN310R37A-P	IC 3 CH HIC	[M]
IC901	C2BBGE000638	IC MICOM [MAIN]	[M]
IC902	C1BB00000542	IC IO EXPANDER	[M]
IC970	LC72720N	IC RDS	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1001	C3FBJC000039	IC ROM	[M]
IC1002	C1BB00000692	IC DIR	[M]
IC1003	SN7AHCT574PW	IC LOGIC	[M]
IC1004	SN7AHCT574PW	IC LOGIC	[M]
IC1005	SN74LV244APW	IC LOGIC	[M]
IC1006	SNAHC1U04DBV	IC SINGLE INVERTER	[M]
IC1007	SN74HCU04APW	IC LOGIC	[M]
IC1008	C2HBZZ000008	IC AC3/DTS	[M]
IC1009	C2HBZZ000009	IC DSP	[M]
IC1010	SN74LV244APW	IC LOGIC	[M]
IC1011	SN7AHCT244PW	IC LOGIC	[M]
IC1012	C0FBAK000007	IC LOGIC ADC CONVERT	[M]
IC1301	C0ABBB000125	IC OP AMP	[M]
IC1302	C0ABBB000125	IC OP AMP	[M]
IC1303	C0ABBB000125	IC OP AMP	[M]
IC1304	C0ABBB000125	IC OP AMP	[M]
IC1305	C0ABBB000125	IC OP AMP	[M]
IC1401	C0JBAS000176	IC SELECTOR	[M]
IC1402	C1BB00000490	IC VOLUME	[M]
IC1403	C0JBAS000175	IC SELECTOR	[M]
IC1404	TC9482F	IC VOLUME	[M]
IC1501	C0ABBB000125	IC OP AMP	[M]
IC1502	C0ABBB000125	IC OP AMP	[M]
IC1503	C0ABBB000125	IC OP AMP	[M]
IC1504	C0ABBB000125	IC OP AMP	[M]
IC1505	C0ABBB000125	IC OP AMP	[M]
IC1506	C0ABBB000102	IC OP AMP	[M]
IC1507	C0ABBB000102	IC OP AMP	[M]
IC1701	BA25BC0FP	IC REGULATOR	[M] ⚠
IC1702	C0CBCBD00002	IC	[M] ⚠
IC1801	C0FBBK000032	IC D/A CONVERTER	[M]
IC1802	C0ABBB000125	IC OP AMP	[M]
IC1803	C0FBBK000033	IC D/A CONVERTER	[M]
IC1804	C0ABBB000125	IC OP AMP	[M]
IC1805	C0ABBB000125	IC OP AMP	[M]
IC1806	C0FBBK000032	IC D/A CONVERTER	[M]
IC1807	C0ABBB000125	IC OP AMP	[M]
IC1808	C0ABBB000125	IC OP AMP	[M]
IC1809	C0FBBK000032	IC D/A CONVERTER	[M]
IC1810	C0ABBB000125	IC OP AMP	[M]
IC1811	C0ABBB000125	IC OP AMP	[M]
IC1951	C2BBGE000626	IC MICOM SUB	[M]
		TRANSISTORS	
Q351	2SD1915FTA	TRANSISTOR	[M]
Q352	2SD1915FTA	TRANSISTOR	[M]
Q353	2SD1915FTA	TRANSISTOR	[M]
Q355	2SC3940ARA	TRANSISTOR	[M] ⚠
Q356	2SA1534ALA	TRANSISTOR	[M] ⚠
Q501	2SD1915FTA	TRANSISTOR	[M]
Q502	2SD1915FTA	TRANSISTOR	[M]
Q503	2SD1915FTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q504	2SD1915FTA	TRANSISTOR	[M]
Q541	2SD1915FTA	TRANSISTOR	[M]
Q542	2SD1915FTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q591	2SD1915FTA	TRANSISTOR	[M]
Q593	2SD1915FTA	TRANSISTOR	[M]
Q601	B1GCCFGH0002	TRANSISTOR	[M]
Q602	B1GCCFGH0002	TRANSISTOR	[M]
Q603	B1GCCFGH0002	TRANSISTOR	[M]
Q614	RVTDTA114EST	TRANSISTOR	[M]
Q651	B1GCCFGH0002	TRANSISTOR	[M]
Q653	B1GCCFGH0002	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q703	B1AACF000063	TRANSISTOR	[M] ⚠
Q704	B1AACF000063	TRANSISTOR	[M] ⚠
Q706	2SC3940ARA	TRANSISTOR	[M] ⚠
Q707	2SA1534ALA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q723	RVTDTA114EST	TRANSISTOR	[M] ⚠
Q724	RVTDTC114EST	TRANSISTOR	[M] ⚠
Q725	B1GACFJN0007	TRANSISTOR	[M] ⚠
Q751	RVTDTC143XST	TRANSISTOR	[M] ⚠
Q752	2SC3940ARA	TRANSISTOR	[M] ⚠
Q753	2SK2880CTA	TRANSISTOR	[M] ⚠
Q754	RVTDTC114EST	TRANSISTOR	[M] ⚠
Q771	2SA933SQRSTA	TRANSISTOR	[M]
Q772	B1AACF000063	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	RVTDTA114EST	TRANSISTOR	[M]
Q776	B1AACF000063	TRANSISTOR	[M]
Q777	2SA933SQRSTA	TRANSISTOR	[M]
Q778	2SA933SQRSTA	TRANSISTOR	[M]
Q779	2SA933SQRSTA	TRANSISTOR	[M]
Q780	2SA933SQRSTA	TRANSISTOR	[M]
Q781	B1AACF000063	TRANSISTOR	[M]
Q782	RVTDTA114EST	TRANSISTOR	[M]
Q901	B1GACFJN0007	TRANSISTOR	[M]
Q902	2SA933SQRSTA	TRANSISTOR	[M] ⚠
Q905	RVTDTA114EST	TRANSISTOR	[M] ⚠
Q906	B1GACFJN0007	TRANSISTOR	[M] ⚠
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
Q1681	2SD1915FTA	TRANSISTOR	[M]
Q1682	2SD1915FTA	TRANSISTOR	[M]
Q1701	2SD21370PA	TRANSISTOR	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
Q1702	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q1703	B1AACF000063	TRANSISTOR	[M] ⚠
Q1951	B1GBCFJN0001	TRANSISTOR	[M]
Q1952	2SB14620RL	TRANSISTOR	[M] ⚠
		DIODES	
D301	B0AACK000004	DIODE	[M]
D302	B0AACK000004	DIODE	[M]
D351	B0BA5R600016	DIODE	[M]
D352	B0BA5R600016	DIODE	[M]
D353	B0AACK000004	DIODE	[M]
D354	B0AACK000004	DIODE	[M]
D401	MTZJ7R5BTA	DIODE	[M]
D501	B0AACK000004	DIODE	[M]
D502	B0AACK000004	DIODE	[M]
D503	B0AACK000004	DIODE	[M]
D504	B0AACK000004	DIODE	[M]
D505	B0AACK000004	DIODE	[M]
D506	B0AACK000004	DIODE	[M]
D601	B0JAPG000008	DIODE	[M]
D602	B0JAPG000008	DIODE	[M]
D611	B0AACK000004	DIODE	[M]
D612	B0AACK000004	DIODE	[M]
D613	B0AACK000004	DIODE	[M]
D614	B0AACK000004	DIODE	[M]
D619	B0AACK000004	DIODE	[M]
D621	B0AACK000004	DIODE	[M]
D622	B0AACK000004	DIODE	[M]
D625	B0BA5R000004	DIODE	[M]
D626	B0AACK000004	DIODE	[M]
D651	B0JAPG000008	DIODE	[M]
D652	B0JAPG000008	DIODE	[M]
D701	1N5402BM21	DIODE	[M] ⚠
D702	1N5402BM21	DIODE	[M] ⚠
D703	1N5402BM21	DIODE	[M] ⚠
D704	1N5402BM21	DIODE	[M] ⚠
D705	B0BA6R100003	DIODE	[M]
D707	MTZJ30BTA	DIODE	[M]
D708	MTZJ16CTA	DIODE	[M]
D721	1N5402BM21	DIODE	[M] ⚠
D722	1N5402BM21	DIODE	[M] ⚠
D723	1N5402BM21	DIODE	[M] ⚠
D724	1N5402BM21	DIODE	[M] ⚠
D725	1N5402BM21	DIODE	[M] ⚠
D726	1N5402BM21	DIODE	[M] ⚠
D727	1N5402BM21	DIODE	[M] ⚠
D728	1N5402BM21	DIODE	[M] ⚠
D731	B0AACK000004	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D732	B0AACK000004	DIODE	[M]
D733	B0AACK000004	DIODE	[M]
D741	1SR35400V	DIODE	[M] ⚠
D742	1SR35400V	DIODE	[M] ⚠
D743	1SR35400V	DIODE	[M] ⚠
D744	1SR35400V	DIODE	[M] ⚠
D751	1SR35400V	DIODE	[M] ⚠
D752	1SR35400V	DIODE	[M] ⚠
D753	1SR35400V	DIODE	[M] ⚠
D754	1SR35400V	DIODE	[M] ⚠
D755	B0AACK000004	DIODE	[M]
D756	B0BA6R600008	DIODE	[M]
D757	MTZJ16CTA	DIODE	[M] ⚠
D768	B0BA3R300010	DIODE	[M]
D769	B0AACK000004	DIODE	[M]
D770	B0AACK000004	DIODE	[M]
D771	RB721Q40T77	DIODE	[M] ⚠
D772	RB721Q40T77	DIODE	[M] ⚠
D773	B0BA8R200005	DIODE	[M]
D774	RB721Q40T77	DIODE	[M]
D781	RB721Q40T77	DIODE	[M] ⚠
D782	RB721Q40T77	DIODE	[M] ⚠
D902	B0AACK000004	DIODE	[M]
D903	B0BA5R600016	DIODE	[M]
D904	MTZJ3R9ATA	DIODE	[M]
D907	MA2C167A0E	DIODE	[M]
D911	B0AACK000004	DIODE	[M]
D913	B0AACK000004	DIODE	[M]
D914	1SS291TA	DIODE	[M]
D915	B0AACK000004	DIODE	[M]
D931	B3AAA0000487	DIODE	[M]
D932	B3AAA0000487	DIODE	[M]
D933	B3AAA0000487	DIODE	[M]
D934	B3AAA0000487	DIODE	[M]
D935	B3AAA0000487	DIODE	[M]
D936	B3AAA0000487	DIODE	[M]
D937	B3AAA0000487	DIODE	[M]
D939	B3AAA0000487	DIODE	[M]
D942	B3AAA0000487	DIODE	[M]
D943	B3ACA0000063	DIODE	[M]
D970	B0AACK000004	DIODE	[M]
D1701	UDZSTE176R2B	DIODE	[M]
D1951	B0ACCK000005	DIODE	[M]
D1952	UDZTE173R3B	DIODE	[M]
		VARIABLE RESISTORS	
VR901	K9AA012A0004	VR ROTARY ENCODER	[M]
VR902	EVEKD2F3024B	VR ROTARY ENCODER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		SWITCHES	
S953	EVQ21405RJ	SW SFC MODE	[M]
S954	EVQ21405RJ	SW TIMER	[M]
S955	EVQ21405RJ	SW MEMORY	[M]
S956	EVQ21405RJ	SW FM MODE	[M]
S957	EVQ21405RJ	SW BAND	[M]
S958	EVQ21405RJ	SW PRESET	[M]
S959	EVQ21405RJ	SW TUNING UP	[M]
S960	EVQ21405RJ	SW TUNING DOWN	[M]
S961	EVQ21405RJ	SW SPEAKER B	[M]
S962	EVQ21405RJ	SW RESET HELP	[M]
S963	EVQ21405RJ	SW DISPLAY SOUND MD	[M]
S964	EVQ21405RJ	SW SOUND MODE	[M]
S965	EVQ21405RJ	SW DIGITAL	[M]
S966	EVQ21405RJ	SW DVD 6CH	[M]
S967	EVQ21405RJ	SW +/RIGHT	[M]
S968	EVQ21405RJ	SW -/LEFT	[M]
S969	EVQ21405RJ	SW TONE/BALANCE	[M]
S970	EVQ21405RJ	SW TAPE MONITOR	[M]
S971	EVQ21405RJ	SW SUB.WOOFER LEVEL	[M]
		CONNECTORS	
CN301	REX1110	WIRE	[M]
CN301A	K1MN18A00038	18P FFC CONNECTOR	[M]
CN301B	K1MN18A00038	18P FFC CONNECTOR	[M]
CN351	REX1108	WIRE	[M]
CN401	K1MP07A00006	7P TAPING CONNECTOR	[M]
CN402	K1MP06A00009	6P TAPING CONNECTOR	[M]
CN403	REX1109	WIRE	[M]
CN601	K1MP04A00008	4P TAPING CONNECTOR	[M]
CN602	K1KA04B00084	CONNECTOR	[M]
CN702	K1MP03A00010	3P TAPING CONNECTOR	[M]
CN751	K1ML03B00002	3P CONNECTOR	[M]
CN752	K1MP04A00008	4P TAPING CONNECTOR	[M]
CN901	K1KB10A00065	10P B/B CONNECTOR	[M]
CN902A	K1MN14B00066	14P FFC CONN. (SIDE)	[M]
CN902B	K1MN14A00047	14P FFC CONN. (TOP)	[M]
CN905A	K1MN15B00057	15P FFC CONN.[SIDE]	[M]
CN905B	K1MN15A00018	15P FFC CONNECTOR	[M]
CN907	RJU100W04	4P CONNECTOR	[M]
CN1001A	K1MN30A00038	30P FFC CONNECTOR	[M]
CN1001B	K1MN30A00038	30P FFC CONNECTOR	[M]
CP101	K1KA11A00093	11P CONNECTOR	[M]
CP301	RJP3G9YA	CONNECTOR	[M]
CP351	RJP3G9YA	CONNECTOR	[M]
CP403	RJP4G4YA	CONNECTOR	[M]
CP771	K1KA02A00008	FAN CONNECTOR	[M]
CP901	RJT003K010M1	10P CONNECTOR	[M]
CP907	RJT100W04	4P CONNECTOR	[M]
		COILS & TRANSFORMERS	

Ref. No.	Part No.	Part Name & Description	Remarks
L601	RLQYR73MW-E	CHOKE COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L605	RLQYR73MW-E	CHOKE COIL	[M]
L606	RLQYR73MW-E	CHOKE COIL	[M]
L701	G0B102L00001	AC COIL	[M] ⚠
L970	G0C101KA0029	AXIAL COIL	[M]
L971	G0C101KA0029	AXIAL COIL	[M]
L1001	RLQZ150M-0	CHOKE COIL	[M]
L1002	VLQ0855M1R0T	CHIP INDUCTOR	[M]
L1003	G1C2R2K00008	CHIP INDUCTOR	[M]
L1004	G1C2R2K00008	CHIP INDUCTOR	[M]
L1005	G1C2R2K00008	CHIP INDUCTOR	[M]
L1006	G1C2R2K00008	CHIP INDUCTOR	[M]
L1007	G1C2R2K00008	CHIP INDUCTOR	[M]
L1008	G1C2R2K00008	CHIP INDUCTOR	[M]
L1009	G1C2R2K00008	CHIP INDUCTOR	[M]
L1010	G1C2R2K00008	CHIP INDUCTOR	[M]
L1011	G1C2R2K00008	CHIP INDUCTOR	[M]
L1012	G1C2R2K00008	CHIP INDUCTOR	[M]
L1951	G1C101K00008	CHIP COIL	[M]
T701	RTP2Q5B002	POWER TRANSFORMER	[M] ⚠
T751	RTP1H5B001	STANDBY TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z751	ERZV10V511CS	ZENER	[M] ⚠
Z901	B3RAB0000013	REMOTE SENSOR	[M]
Z1701	J0JKB0000020	EMI BEAD CORE	[M]
Z1702	J0JKB0000020	EMI BEAD CORE	[M]
		CERAMIC FILTERS	
CF901	H2B400400008	CERAMIC OSCILLATOR	[M]
CF1951	H2B400400008	CERAMIC OSCILLATOR	[M]
		RELAY	
RL601	RSY0038-C	RELAY	[M] ⚠
RL602	RSY0038-C	RELAY	[M] ⚠
RL603	RSY0038-C	RELAY	[M] ⚠
RL604	RSY0038-C	RELAY	[M] ⚠
RL751	K6B1AEA00003	PC POWER RELAY	[M] ⚠
		OSCILLATORS	
X970	H0H433400001	CRYSTAL OSCILLATOR	[M]
X1001	H0J122200001	CRYSTAL OSCILLATOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		DISPLAY TUBE	
FL901	A2BB00000101	FL DISPLAY	[M]
		FUSES	
F1	K5D312BL0006	FUSE	[M] ⚠
F3	K5D632BL0002	FUSE	[M] ⚠
F4	K5D632BL0002	FUSE	[M] ⚠
F5	K5D122BL0005	FUSE	[M] ⚠
		FUSE HOLDERS	
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
FC705	EYF52BC	FUSE HOLDER	[M]
FC706	EYF52BC	FUSE HOLDER	[M]
FC707	EYF52BC	FUSE HOLDER	[M]
FC708	EYF52BC	FUSE HOLDER	[M]
FC709	EYF52BC	FUSE HOLDER	[M]
FC710	EYF52BC	FUSE HOLDER	[M]
HP601	K2HB103J0064	HP JACK	[M]
		JACKS	
JK301	K4BK04H00005	JK FRONT VCR TERMINA	[M]
JK301	RJS1D1304	JK SPEAKER TERMINAL	[M]
JK302	K1CB208B0003	JK S VIDEO TERMINAL	[M]
JK303	RJS1D1404	JK S VIDEO TERMINAL	[M]
JK351	K4BK02H00001	JK 2 PIN RCA	[M]
JK352	K4BK01H00002	JK 1 PIN RCA	[M]
JK354	K4BK02H00003	JK 2 PIN RCA	[M]
JK355	K4BK02H00003	JK 2 PIN RCA	[M]
JK356	K4BK03H00002	JK 3 PIN RCA	[M]
JK401	K4BK02H00001	JK 2 PIN RCA	[M]
JK402	K4BK04H00006	JK 4 PIN RCA	[M]
JK403	K4BK04H00001	JK 4 PIN RCA	[M]
JK404	K4BK04H00001	JK 4 PIN RCA	[M]
JK405	K4BK04H00001	JK 4 PIN RCA	[M]
JK406	K4BK04H00001	JK 4 PIN RCA	[M]
JK601	K4BB08B00001	JK 8 PINS RCA	[M]
JK602	K4BB08B00001	JK 8 PINS RCA	[M]
JK791	K2AA2B000004	JK AC INLET	[M] ⚠
JK1001	K7ABBB000001	JK OPTICAL (IN)	[M]
JK1002	K7ABBB000001	JK OPTICAL (IN)	[M]
JK1003	K7ABBB000001	JK OPTICAL (IN)	[M]
JK1004	K4BK01H00003	JK COAX INPUT	[M]
JK1005	K7AABB000002	JK OPTICAL (OUT)	[M]
JK1006	K7ABBB000001	JK OPTICAL (IN)	[M]
JK1301	K4BK02H00002	JK 2 PIN RCA	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
JK1302	K4BK04H00003	JK 4P RCA	[M]
		EARTH TERMINAL	
E601	SNE1004-2	EARTH TERMINAL	[M]
E602	SNE1004-2	EARTH TERMINAL	[M]
E701	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE0901	WIRE	[M]
W2	REE0907	WIRE	[M]
W351	RWJ1807150SS	WIRE	[M]
W402	RWJ1813120SX	WIRE	[M]
W601	RWJ1804150SX	WIRE	[M]
W611	REZ1432	WIRE KIT	[M]
W701	RWJ1812250SS	WIRE	[M]
W702	RWJ1803450SX	WIRE	[M]
W752	RWJ1804150SX	WIRE	[M]
W901	RWJ1803150SS	WIRE	[M]
		RESISTORS	
R301	ERDS2TJ750T	75 1/4W	[M]
R302	ERDS2TJ104T	100K 1/4W	[M]
R302	ERDS2TJ750T	75 1/4W	[M]
R303	ERDS2TJ103T	10K 1/4W	[M]
R303	ERDS2TJ750T	75 1/4W	[M]
R304	ERDS2TJ750T	75 1/4W	[M]
R305	ERDS2TJ750T	75 1/4W	[M]
R306	ERDS2TJ750T	75 1/4W	[M]
R307	ERDS2TJ750T	75 1/4W	[M]
R308	ERDS2TJ750T	75 1/4W	[M]
R309	ERDS2TJ103T	10K 1/4W	[M]
R310	ERDS2TJ103T	10K 1/4W	[M]
R311	ERDS2TJ103T	10K 1/4W	[M]
R312	ERDS2TJ104T	100K 1/4W	[M]
R313	ERDS2TJ103T	10K 1/4W	[M]
R314	ERDS2TJ750T	75 1/4W	[M]
R315	ERDS2TJ104T	100K 1/4W	[M]
R316	ERDS2TJ750T	75 1/4W	[M]
R317	ERDS2TJ104T	100K 1/4W	[M]
R318	ERDS2TJ750T	75 1/4W	[M]
R319	ERDS2TJ104T	100K 1/4W	[M]
R320	ERDS2TJ750T	75 1/4W	[M]
R321	ERDS2TJ750T	75 1/4W	[M]
R322	ERDS2TJ104T	100K 1/4W	[M]
R323	ERDS2TJ103T	10K 1/4W	[M]
R324	ERDS2TJ102T	1K 1/4W	[M]
R325	ERDS2TJ102T	1K 1/4W	[M]
R326	ERDS2TJ102T	1K 1/4W	[M]
R327	ERDS2TJ750T	75 1/4W	[M]
R328	ERDS2TJ102T	1K 1/4W	[M]
R329	ERDS2TJ102T	1K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R330	ERDS2TJ102T	1K 1/4W	[M]
R332	ERDS2TJ102T	1K 1/4W	[M]
R333	ERDS2TJ102T	1K 1/4W	[M]
R334	ERDS2TJ102T	1K 1/4W	[M]
R335	ERDS2TJ102T	1K 1/4W	[M]
R336	ERDS2TJ750T	75 1/4W	[M]
R337	ERDS2TJ750T	75 1/4W	[M]
R341	ERDS2TJ102T	1K 1/4W	[M]
R343	ERDS2TJ102T	1K 1/4W	[M]
R344	ERDS2TJ102T	1K 1/4W	[M]
R345	ERDS2TJ103T	10K 1/4W	[M]
R346	ERDS2TJ332T	3.3K 1/4W	[M]
R347	ERDS2TJ103T	10K 1/4W	[M]
R348	ERDS2TJ103T	10K 1/4W	[M]
R351	ERDS2TJ750T	75 1/4W	[M]
R357	ERDS2TJ750T	75 1/4W	[M]
R358	ERDS2TJ750T	75 1/4W	[M]
R359	ERDS2TJ103T	10K 1/4W	[M]
R360	ERDS2TJ750T	75 1/4W	[M]
R361	ERDS2TJ750T	75 1/4W	[M]
R362	ERDS2TJ750T	75 1/4W	[M]
R366	ERDS2TJ102T	1K 1/4W	[M]
R367	ERDS2TJ104T	100K 1/4W	[M]
R368	ERDS2TJ103T	10K 1/4W	[M]
R369	ERDS2TJ103T	10K 1/4W	[M]
R370	ERDS2TJ103T	10K 1/4W	[M]
R372	ERDS2TJ102T	1K 1/4W	[M]
R375	ERDS2TJ104T	100K 1/4W	[M]
R379	ERDS2TJ102T	1K 1/4W	[M]
R381	ERDS2TJ750T	75 1/4W	[M]
R383	ERDS2TJ102T	1K 1/4W	[M]
R385	ERDS2TJ822T	8.2K 1/4W	[M]
R386	ERDS2TJ102T	1K 1/4W	[M]
R388	ERDS2TJ102T	1K 1/4W	[M]
R392	ERDS2TJ750T	75 1/4W	[M]
R393	ERDS2TJ684T	680K 1/4W	[M]
R395	ERDS2TJ103T	10K 1/4W	[M]
R397	ERDS2TJ103T	10K 1/4W	[M]
R398	ERDS2TJ822T	8.2K 1/4W	[M]
R399	ERDS2TJ332T	3.3K 1/4W	[M]
R401	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ103T	10K 1/4W	[M]
R403	ERDS2TJ102T	1K 1/4W	[M]
R404	ERD2FCVG220T	22 1/4W	[M]
R404	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ182T	1.8K 1/4W	[M]
R406	ERDS2TJ102T	1K 1/4W	[M]
R407	ERDS2TJ102T	1K 1/4W	[M]
R407	ERDS2TJ182T	1.8K 1/4W	[M]
R408	ERD2FCVG220T	22 1/4W	[M]
R408	ERDS2TJ102T	1K 1/4W	[M]
R409	ERDS2TJ102T	1K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R410	ERDS2TJ102T	1K 1/4W	[M]
R410	ERDS2TJ103T	10K 1/4W	[M]
R411	ERDS2TJ102T	1K 1/4W	[M]
R412	ERDS2TJ102T	1K 1/4W	[M]
R413	ERDS2TJ102T	1K 1/4W	[M]
R414	ERDS2TJ102T	1K 1/4W	[M]
R414	ERDS2TJ103T	10K 1/4W	[M]
R415	ERDS2TJ102T	1K 1/4W	[M]
R415	ERDS2TJ103T	10K 1/4W	[M]
R416	ERDS2TJ102T	1K 1/4W	[M]
R417	ERDS2TJ102T	1K 1/4W	[M]
R417	ERDS2TJ473T	47K 1/4W	[M]
R418	ERDS2TJ473T	47K 1/4W	[M]
R419	ERDS2TJ104T	100K 1/4W	[M]
R420	ERDS2TJ104T	100K 1/4W	[M]
R421	ERDS2TJ102T	1K 1/4W	[M]
R421	ERDS2TJ104T	100K 1/4W	[M]
R422	ERDS2TJ102T	1K 1/4W	[M]
R422	ERDS2TJ104T	100K 1/4W	[M]
R423	ERDS2TJ102T	1K 1/4W	[M]
R423	ERDS2TJ224T	220K 1/4W	[M]
R424	ERDS2TJ102T	1K 1/4W	[M]
R424	ERDS2TJ224T	220K 1/4W	[M]
R425	ERDS2TJ103T	10K 1/4W	[M]
R426	ERDS2TJ103T	10K 1/4W	[M]
R427	ERDS2TJ103T	10K 1/4W	[M]
R435	ERDS2TJ102T	1K 1/4W	[M]
R436	ERDS2TJ102T	1K 1/4W	[M]
R437	ERDS2TJ102T	1K 1/4W	[M]
R438	ERDS2TJ102T	1K 1/4W	[M]
R439	ERDS2TJ102T	1K 1/4W	[M]
R440	ERDS2TJ102T	1K 1/4W	[M]
R443	ERDS2TJ102T	1K 1/4W	[M]
R444	ERDS2TJ102T	1K 1/4W	[M]
R445	ERDS2TJ103T	10K 1/4W	[M]
R446	ERDS2TJ103T	10K 1/4W	[M]
R447	ERDS2TJ103T	10K 1/4W	[M]
R449	ERDS1FVJ560T	56 1/2W	[M] ⚠
R450	ERDS1FVJ560T	56 1/2W	[M] ⚠
R451	ERDS2TJ224T	220K 1/4W	[M]
R452	ERDS2TJ224T	220K 1/4W	[M]
R453	ERDS2TJ391T	390 1/4W	[M]
R454	ERDS2TJ391T	390 1/4W	[M]
R455	ERDS2TJ563T	56K 1/4W	[M]
R456	ERDS2TJ563T	56K 1/4W	[M]
R457	ERDS2TJ271T	270 1/4W	[M]
R458	ERDS2TJ271T	270 1/4W	[M]
R459	ERDS2TJ680T	68 1/4W	[M]
R460	ERDS2TJ680T	68 1/4W	[M]
R461	ERDS2TJ184T	180K 1/4W	[M]
R462	ERDS2TJ184T	180K 1/4W	[M]
R463	ERDS2TJ123T	12K 1/4W	[M]
R464	ERDS2TJ123T	12K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R465	ERDS2TJ563T	56K 1/4W	[M]
R466	ERDS2TJ563T	56K 1/4W	[M]
R467	ERDS2TJ473T	47K 1/4W	[M]
R468	ERDS2TJ473T	47K 1/4W	[M]
R469	ERDS2TJ102T	1K 1/4W	[M]
R470	ERDS2TJ102T	1K 1/4W	[M]
R501	ERDS2TJ331T	330 1/4W	[M]
R502	ERDS2TJ331T	330 1/4W	[M]
R503	ERDS2TJ473T	47K 1/4W	[M]
R504	ERDS2TJ473T	47K 1/4W	[M]
R505	ERDS2TJ102T	1K 1/4W	[M]
R506	ERDS2TJ102T	1K 1/4W	[M]
R507	ERDS2TJ102T	1K 1/4W	[M]
R508	ERDS2TJ102T	1K 1/4W	[M]
R509	ERDS2TJ331T	330 1/4W	[M]
R510	ERDS2TJ331T	330 1/4W	[M]
R541	ERDS2TJ331T	330 1/4W	[M]
R542	ERDS2TJ473T	47K 1/4W	[M]
R543	ERDS2TJ102T	1K 1/4W	[M]
R544	ERDS2TJ102T	1K 1/4W	[M]
R545	ERDS2TJ331T	330 1/4W	[M]
R547	ERDS2TJ684T	680K 1/4W	[M]
R548	ERDS2TJ684T	680K 1/4W	[M]
R549	ERDS2TJ822T	8.2K 1/4W	[M]
R550	ERDS2TJ822T	8.2K 1/4W	[M]
R551	ERDS2TJ331T	330 1/4W	[M]
R552	ERDS2TJ331T	330 1/4W	[M]
R553	ERDS2TJ473T	47K 1/4W	[M]
R554	ERDS2TJ473T	47K 1/4W	[M]
R555	ERDS2TJ102T	1K 1/4W	[M]
R556	ERDS2TJ102T	1K 1/4W	[M]
R557	ERDS2TJ102T	1K 1/4W	[M]
R558	ERDS2TJ102T	1K 1/4W	[M]
R559	ERDS2TJ331T	330 1/4W	[M]
R560	ERDS2TJ331T	330 1/4W	[M]
R591	ERDS2TJ331T	330 1/4W	[M]
R592	ERDS2TJ473T	47K 1/4W	[M]
R593	ERDS2TJ102T	1K 1/4W	[M]
R594	ERDS2TJ102T	1K 1/4W	[M]
R595	ERDS2TJ331T	330 1/4W	[M]
R601	ERDS2TJ472T	4.7K 1/4W	[M]
R602	ERDS2TJ472T	4.7K 1/4W	[M]
R603	ERDPS2VF122T	1.2K 1/4W	[M]
R604	ERDPS2VF122T	1.2K 1/4W	[M]
R605	ERDS2TJ221T	220 1/4W	[M]
R606	ERDS2TJ221T	220 1/4W	[M]
R607	ERDPS2VF223T	22K 1/4W	[M]
R608	ERDPS2VF223T	22K 1/4W	[M]
R609	ERDS2TJ470T	47 1/4W	[M]
R610	ERDS2TJ470T	47 1/4W	[M]
R611	ERG1SJ100E	10 1W	[M] ⚠
R612	ERG1SJ100E	10 1W	[M] ⚠
R616	ERD25FVJ820T	82 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R617	ERD25FVJ820T	82 1/4W	[M]
R618	ERD25FVJ820T	82 1/4W	[M]
R619	ERD25FVJ820T	82 1/4W	[M]
R621	ERDS2TJ682T	6.8K 1/4W	[M]
R622	ERDS2TJ682T	6.8K 1/4W	[M]
R623	ERDS2TJ682T	6.8K 1/4W	[M]
R624	ERD25FVJ4R7T	4.7 1/4W	[M]
R625	ERG1SJ101E	100 1W	[M] ⚠
R626	ERG1SJ101E	100 1W	[M] ⚠
R627	ERG1SJ101E	100 1W	[M] ⚠
R628	ERG1SJ101E	100 1W	[M] ⚠
R629	ERDS2TJ102T	1K 1/4W	[M]
R631	ERDS2TJ154T	150K 1/4W	[M]
R632	ERDS2TJ184T	180K 1/4W	[M]
R633	ERDS2TJ473T	47K 1/4W	[M]
R634	ERDS2TJ274T	270K 1/4W	[M]
R635	ERDS2TJ103T	10K 1/4W	[M]
R637	ERDS2TJ154T	150K 1/4W	[M]
R638	ERDS2TJ154T	150K 1/4W	[M]
R641	ERDS2TJ472T	4.7K 1/4W	[M]
R642	ERDPS2VF122T	1.2K 1/4W	[M]
R643	ERDPS2VF223T	22K 1/4W	[M]
R644	ERG1SJ100E	10 1W	[M] ⚠
R645	ERDS2TJ470T	47 1/4W	[M]
R646	ERDS2TJ221T	220 1/4W	[M]
R651	ERDS2TJ472T	4.7K 1/4W	[M]
R652	ERDS2TJ472T	4.7K 1/4W	[M]
R653	ERDPS2VF122T	1.2K 1/4W	[M]
R654	ERDPS2VF122T	1.2K 1/4W	[M]
R655	ERDS2TJ221T	220 1/4W	[M]
R656	ERDS2TJ221T	220 1/4W	[M]
R657	ERDPS2VF223T	22K 1/4W	[M]
R658	ERDPS2VF223T	22K 1/4W	[M]
R659	ERDS2TJ470T	47 1/4W	[M]
R660	ERDS2TJ470T	47 1/4W	[M]
R661	ERG1SJ100E	10 1W	[M] ⚠
R662	ERG1SJ100E	10 1W	[M] ⚠
R669	ERG1SJ100E	10 1W	[M] ⚠
R671	ERDS2TJ681T	680 1/4W	[M]
R672	ERDS2TJ681T	680 1/4W	[M]
R673	ERDS2TJ124T	120K 1/4W	[M]
R674	ERD25FVJ4R7T	4.7 1/4W	[M]
R675	ERDS2TJ222T	2.2K 1/4W	[M]
R676	ERDS2TJ222T	2.2K 1/4W	[M]
R679	ERDS2TJ102T	1K 1/4W	[M]
R680	ERDS2TJ124T	120K 1/4W	[M]
R681	ERDS2TJ154T	150K 1/4W	[M]
R682	ERDS2TJ184T	180K 1/4W	[M]
R683	ERDS2TJ473T	47K 1/4W	[M]
R684	ERDS2TJ274T	270K 1/4W	[M]
R685	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R687	ERDS2TJ154T	150K 1/4W	[M]
R688	ERDS2TJ154T	150K 1/4W	[M]
R690	ERDS2TJ104T	100K 1/4W	[M]
R691	ERDS2TJ472T	4.7K 1/4W	[M]
R692	ERDPS2VF122T	1.2K 1/4W	[M]
R693	ERDPS2VF223T	22K 1/4W	[M]
R694	ERDS2TJ104T	100K 1/4W	[M]
R695	ERDS2TJ470T	47 1/4W	[M]
R696	ERDS2TJ221T	220 1/4W	[M]
R705	ERDS2TJ472T	4.7K 1/4W	[M]
R706	ERDS2TJ102T	1K 1/4W	[M]
R707	ERD25FVJ221T	220 1/4W	[M]
R708	ERDS2TJ152T	1.5K 1/4W	[M]
R711	ERDS2TJ752T	4.7K 1/4W	[M]
R712	ERDS2TJ682T	6.8K 1/4W	[M]
R713	ERDS2TJ390T	390 1/4W	[M]
R714	ERDS2TJ390T	390 1/4W	[M]
R718	ERDS2TJ333T	33K 1/4W	[M]
R719	ERDS2TJ333T	33K 1/4W	[M]
R720	ERDS2TJ103T	10K 1/4W	[M]
R721	ERDS1FVJ561T	560 1/2W	[M] ⚠
R722	ERDS2TJ123T	12K 1/4W	[M]
R723	ERDS1FVJ1R2T	1.2 1/2W	[M] ⚠
R724	ERDS1FVJ1R2T	1.2 1/2W	[M] ⚠
R725	ERDS2TJ102T	1K 1/4W	[M]
R726	ERD25FVJ680T	68 1/4W	[M]
R728	ERDS2TJ274T	270K 1/4W	[M]
R729	ERDS2TJ274T	270K 1/4W	[M]
R730	ERDS1FVJ2R7T	2.7 1/2W	[M]
R755	ERDS2TJ222T	2.2K 1/4W	[M]
R766	ERDS2TJ473T	47K 1/4W	[M]
R767	ERDS2TJ154T	150K 1/4W	[M]
R768	ERDS2TJ102T	1K 1/4W	[M]
R769	ERDS2TJ103T	10K 1/4W	[M]
R770	ERDS2TJ104T	100K 1/4W	[M]
R771	ERDS2TJ104T	100K 1/4W	[M]
R773	ERDS2TJ103T	10K 1/4W	[M]
R774	ERDS2TJ155T	1.5M 1/4W	[M]
R775	ERDS2TJ331T	330 1/4W	[M]
R776	ERDS1FVJ220T	22 1/2W	[M] ⚠
R777	ERDS2TJ154T	150K 1/4W	[M]
R778	ERDS2TJ472T	4.7K 1/4W	[M]
R779	ERDS2TJ103T	10K 1/4W	[M]
R780	ERDS1FVJ3R9T	3.9 1/2W	[M] ⚠
R781	ERDS2TJ221T	220 1/4W	[M]
R782	ERDS2TJ390T	39 1/4W	[M]
R784	ERDS2TJ154T	150K 1/4W	[M]
R786	ERDS2TJ154T	150K 1/4W	[M]
R791	ERDS2TJ123T	12K 1/4W	[M]
R792	ERDS2TJ123T	12K 1/4W	[M]
R793	ERDS2TJ123T	12K 1/4W	[M]
R794	ERDS2TJ123T	12K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R795	ERDS2TJ223T	22K 1/4W	[M]
R796	ERDS2TJ223T	22K 1/4W	[M]
R797	ERDS2TJ223T	22K 1/4W	[M]
R798	ERDS2TJ223T	22K 1/4W	[M]
R799	ERDS2TJ682T	6.8K 1/4W	[M]
R901	ERDS2TJ102T	1K 1/4W	[M]
R902	ERDS2TJ472T	4.7K 1/4W	[M]
R903	ERDS2TJ103T	10K 1/4W	[M]
R904	ERDS2TJ102T	1K 1/4W	[M]
R905	D0AE104JA046	100K 1/4W	[M]
R906	ERDS2TJ271T	270 1/4W	[M]
R907	ERDS2TJ121T	120 1/4W	[M]
R908	ERDS2TJ223T	22K 1/4W	[M]
R909	ERDS2TJ223T	22K 1/4W	[M]
R910	ERDS2TJ222T	2.2K 1/4W	[M]
R911	ERDS2TJ222T	2.2K 1/4W	[M]
R912	D0AE104JA046	100K 1/4W	[M]
R915	ERDS2TJ101T	100 1/4W	[M]
R916	ERDS2TJ101T	100 1/4W	[M]
R918	ERDS2TJ103T	10K 1/4W	[M]
R919	ERDS2TJ103T	10K 1/4W	[M]
R920	ERDS2TJ103T	10K 1/4W	[M]
R921	ERDS2TJ472T	4.7K 1/4W	[M]
R922	D0AE104JA046	100K 1/4W	[M]
R923	ERDS2TJ103T	10K 1/4W	[M]
R924	ERDS2TJ103T	10K 1/4W	[M]
R925	ERDS2TJ271T	270 1/4W	[M]
R926	ERDS2TJ103T	10K 1/4W	[M]
R927	ERDS2TJ101T	100 1/4W	[M]
R928	ERDS2TJ103T	10K 1/4W	[M]
R929	ERDS2TJ271T	270 1/4W	[M]
R931	ERDS2TJ271T	270 1/4W	[M]
R932	ERDS2TJ271T	270 1/4W	[M]
R933	ERDS2TJ271T	270 1/4W	[M]
R934	ERDS2TJ271T	270 1/4W	[M]
R935	ERDS2TJ271T	270 1/4W	[M]
R936	ERDS2TJ271T	270 1/4W	[M]
R937	ERDS2TJ271T	270 1/4W	[M]
R939	ERDS2TJ271T	270 1/4W	[M]
R941	ERDS2TJ103T	10K 1/4W	[M]
R942	ERDS2TJ103T	10K 1/4W	[M]
R948	ERDS2TJ101T	100 1/4W	[M]
R949	ERDS2TJ101T	100 1/4W	[M]
R950	ERDS2TJ101T	100 1/4W	[M]
R951	ERDS2TJ102T	1K 1/4W	[M]
R952	ERDS2TJ152T	1.5K 1/4W	[M]
R953	D0AE182JA046	1.8K 1/4W	[M]
R954	ERDS2TJ222T	2.2K 1/4W	[M]
R955	ERDS2TJ332T	3.3K 1/4W	[M]
R956	ERDS2TJ472T	4.7K 1/4W	[M]
R958	ERDS2TJ682T	6.8K 1/4W	[M]
R959	ERDS2TJ122T	1.2K 1/4W	[M]
R960	ERDS2TJ102T	1K 1/4W	[M]
R961	ERDS2TJ122T	1.2K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R962	ERDS2TJ152T	1.5K 1/4W	[M]
R963	D0AE182JA046	1.8K 1/4W	[M]
R964	ERDS2TJ222T	2.2K 1/4W	[M]
R965	ERDS2TJ332T	3.3K 1/4W	[M]
R966	ERDS2TJ472T	4.7K 1/4W	[M]
R967	ERDS2TJ682T	6.8K 1/4W	[M]
R968	ERDS2TJ123T	12K 1/4W	[M]
R971	ERDS2TJ102T	1K 1/4W	[M]
R972	ERDS2TJ102T	1K 1/4W	[M]
R973	ERDS2TJ102T	1K 1/4W	[M]
R974	ERDS2TJ102T	1K 1/4W	[M]
R975	ERDS2TJ103T	10K 1/4W	[M]
R976	ERDS2TJ104T	100K 1/4W	[M]
R980	ERDS2TJ104T	100K 1/4W	[M]
R981	ERDS2TJ104T	100K 1/4W	[M]
R982	ERDS2TJ104T	100K 1/4W	[M]
R983	ERDS2TJ104T	100K 1/4W	[M]
R985	ERDS2TJ104T	100K 1/4W	[M]
R986	ERDS2TJ104T	100K 1/4W	[M]
R987	ERDS2TJ104T	100K 1/4W	[M]
R991	D0AE104JA046	100K 1/4W	[M]
R992	D0AE104JA046	100K 1/4W	[M]
R993	D0AE104JA046	100K 1/4W	[M]
R994	D0AE104JA046	100K 1/4W	[M]
R1007	ERJ3GEYJ750V	75 1/16W	[M]
R1008	ERJ3GEYJ100V	10 1/16W	[M]
R1010	ERJ3GEYJ471V	470 1/16W	[M]
R1011	ERJ3GEYJ471V	470 1/16W	[M]
R1012	ERJ3GEYJ471V	470 1/16W	[M]
R1015	ERJ3GEYJ102V	1K 1/16W	[M]
R1016	ERJ3GEYJ102V	1K 1/16W	[M]
R1017	ERJ3GEYJ102V	1K 1/16W	[M]
R1018	ERJ3GEYJ183V	18K 1/16W	[M]
R1019	ERJ3GEYJ103V	10K 1/16W	[M]
R1020	ERJ3GEYJ103V	10K 1/16W	[M]
R1027	ERJ3GEYJ102V	1K 1/16W	[M]
R1028	ERJ3GEYJ102V	1K 1/16W	[M]
R1029	ERJ3GEYJ102V	1K 1/16W	[M]
R1030	ERJ3GEYJ331V	330 1/16W	[M]
R1031	ERJ3GEYJ105V	1M 1/16W	[M]
R1032	ERJ3GEYJ102V	1K 1/16W	[M]
R1033	ERJ3GEYJ102V	1K 1/16W	[M]
R1034	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1036	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1037	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1038	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1039	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1040	ERJ3GEYJ103V	10K 1/16W	[M]
R1041	ERJ3GEYJ103V	10K 1/16W	[M]
R1042	ERJ3GEYJ103V	10K 1/16W	[M]
R1043	ERJ3GEYJ103V	10K 1/16W	[M]
R1044	ERJ3GEYJ103V	10K 1/16W	[M]
R1045	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1046	ERJ3GEYJ103V	10K 1/16W	[M]
R1047	ERJ3GEYJ103V	10K 1/16W	[M]
R1048	ERJ3GEYJ103V	10K 1/16W	[M]
R1049	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1050	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1051	ERJ3GEYJ103V	10K 1/16W	[M]
R1052	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1053	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1054	ERJ3GEYJ333V	33K 1/16W	[M]
R1055	ERJ3GEYJ103V	10K 1/16W	[M]
R1056	ERJ3GEYJ333V	33K 1/16W	[M]
R1057	ERJ3GEYJ102V	1K 1/16W	[M]
R1058	ERJ3GEYJ102V	1K 1/16W	[M]
R1059	ERJ3GEYJ102V	1K 1/16W	[M]
R1060	ERJ3GEYJ102V	1K 1/16W	[M]
R1061	ERJ3GEYJ104V	100K 1/16W	[M]
R1062	ERJ3GEYJ104V	100K 1/16W	[M]
R1063	ERJ3GEYJ104V	100K 1/16W	[M]
R1064	ERJ3GEYJ102V	1K 1/16W	[M]
R1065	ERJ3GEYJ102V	1K 1/16W	[M]
R1066	ERJ3GEYJ102V	1K 1/16W	[M]
R1067	ERJ3GEYJ102V	1K 1/16W	[M]
R1068	ERJ3GEYJ102V	1K 1/16W	[M]
R1069	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R1070	ERJ3GEYJ102V	1K 1/16W	[M]
R1071	ERJ3GEYJ181V	180 1/16W	[M]
R1072	ERJ3GEYJ331V	330 1/16W	[M]
R1073	ERJ3GEYJ331V	330 1/16W	[M]
R1074	ERJ3GEYJ331V	330 1/16W	[M]
R1075	ERJ3GEYJ102V	1K 1/16W	[M]
R1112	ERJ3GEYJ471V	470 1/16W	[M]
R1301	ERJ3GEYJ102V	1K 1/16W	[M]
R1302	ERJ3GEYJ102V	1K 1/16W	[M]
R1303	ERJ3GEYJ102V	1K 1/16W	[M]
R1304	ERJ3GEYJ102V	1K 1/16W	[M]
R1305	ERJ3GEYJ102V	1K 1/16W	[M]
R1306	ERJ3GEYJ102V	1K 1/16W	[M]
R1307	ERJ3GEYJ104V	100K 1/16W	[M]
R1308	ERJ3GEYJ104V	100K 1/16W	[M]
R1309	ERJ3GEYJ104V	100K 1/16W	[M]
R1310	ERJ3GEYJ104V	100K 1/16W	[M]
R1311	ERJ3GEYJ104V	100K 1/16W	[M]
R1312	ERJ3GEYJ104V	100K 1/16W	[M]
R1313	ERJ3GEYJ473V	47K 1/16W	[M]
R1314	ERJ3GEYJ473V	47K 1/16W	[M]
R1315	ERJ3GEYJ473V	47K 1/16W	[M]
R1316	ERJ3GEYJ473V	47K 1/16W	[M]
R1317	ERJ3GEYJ473V	47K 1/16W	[M]
R1318	ERJ3GEYJ473V	47K 1/16W	[M]
R1319	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1320	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1321	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1322	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1323	ERJ3GEYJ332V	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1324	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1401	ERJ3GEYJ102V	1K 1/16W	[M]
R1402	ERJ3GEYJ102V	1K 1/16W	[M]
R1403	ERJ3GEYJ473V	47K 1/16W	[M]
R1404	ERJ3GEYJ103V	10K 1/16W	[M]
R1405	ERJ3GEYJ103V	10K 1/16W	[M]
R1406	ERJ3GEYJ473V	47K 1/16W	[M]
R1407	ERJ3GEYJ103V	10K 1/16W	[M]
R1408	ERJ3GEYJ102V	1K 1/16W	[M]
R1409	ERJ3GEYJ102V	1K 1/16W	[M]
R1410	ERJ3GEYJ102V	1K 1/16W	[M]
R1411	ERJ3GEYJ102V	1K 1/16W	[M]
R1412	ERJ3GEYJ102V	1K 1/16W	[M]
R1413	ERJ3GEYJ473V	47K 1/16W	[M]
R1414	ERJ3GEYJ473V	47K 1/16W	[M]
R1415	ERJ3GEYJ473V	47K 1/16W	[M]
R1416	ERJ3GEYJ473V	47K 1/16W	[M]
R1417	ERJ3GEYJ103V	10K 1/16W	[M]
R1418	ERJ3GEYJ103V	10K 1/16W	[M]
R1419	ERJ3GEYJ473V	47K 1/16W	[M]
R1420	ERJ3GEYJ103V	10K 1/16W	[M]
R1421	ERJ3GEYJ102V	1K 1/16W	[M]
R1422	ERJ3GEYJ102V	1K 1/16W	[M]
R1423	ERJ3GEYJ102V	1K 1/16W	[M]
R1501	ERJ3GEYJ104V	100K 1/16W	[M]
R1502	ERJ3GEYJ104V	100K 1/16W	[M]
R1503	ERJ3GEYJ104V	100K 1/16W	[M]
R1504	ERJ3GEYJ821V	820 1/16W	[M]
R1505	ERJ3GEYJ821V	820 1/16W	[M]
R1506	ERJ3GEYJ103V	10K 1/16W	[M]
R1507	ERJ3GEYJ271V	270 1/16W	[M]
R1508	ERJ3GEYJ103V	10K 1/16W	[M]
R1509	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1510	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1511	ERJ3GEYJ821V	820 1/16W	[M]
R1512	ERJ3GEYJ103V	10K 1/16W	[M]
R1513	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1514	ERJ3GEYJ104V	100K 1/16W	[M]
R1515	ERJ3GEYJ104V	100K 1/16W	[M]
R1516	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1517	ERJ3GEYJ104V	100K 1/16W	[M]
R1518	ERJ3GEYJ104V	100K 1/16W	[M]
R1519	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1520	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1521	ERJ3GEYJ821V	820 1/16W	[M]
R1522	ERJ3GEYJ821V	820 1/16W	[M]
R1523	ERJ3GEYJ821V	820 1/16W	[M]
R1524	ERJ3GEYJ103V	10K 1/16W	[M]
R1525	ERJ3GEYJ821V	820 1/16W	[M]
R1526	ERJ3GEYJ103V	10K 1/16W	[M]
R1527	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1528	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1529	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1530	ERJ3GEYJ272V	2.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1531	ERJ3GEYJ103V	10K 1/16W	[M]
R1532	ERJ3GEYJ103V	10K 1/16W	[M]
R1533	ERJ3GEYJ224V	220K 1/16W	[M]
R1534	ERJ3GEYJ103V	10K 1/16W	[M]
R1537	ERJ3GEYJ470V	47 1/16W	[M]
R1538	ERJ3GEYJ470V	47 1/16W	[M]
R1539	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1540	ERJ3GEYJ103V	10K 1/16W	[M]
R1541	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1542	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1543	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1544	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1545	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1546	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1547	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1548	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1549	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1550	ERJ3GEYJ224V	220K 1/16W	[M]
R1551	ERJ3GEYJ331V	330 1/16W	[M]
R1552	ERJ3GEYJ331V	330 1/16W	[M]
R1560	ERJ3GEYJ151V	150 1/16W	[M]
R1561	ERJ3GEYJ151V	150 1/16W	[M]
R1562	ERJ3GEYJ151V	150 1/16W	[M]
R1563	ERJ3GEYJ151V	150 1/16W	[M]
R1570	ERJ3GEYJ104V	100K 1/16W	[M]
R1571	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1572	ERJ3GEYJ821V	820 1/16W	[M]
R1573	ERJ3GEYJ103V	10K 1/16W	[M]
R1681	ERDS2TJ270T	27 1/4W	[M]
R1682	ERDS2TJ270T	27 1/4W	[M]
R1683	ERDS2TJ270T	27 1/4W	[M]
R1684	ERDS2TJ270T	27 1/4W	[M]
R1685	ERDS2TJ270T	27 1/4W	[M]
R1686	ERDS2TJ270T	27 1/4W	[M]
R1687	ERDS2TJ270T	27 1/4W	[M]
R1688	ERDS2TJ270T	27 1/4W	[M]
R1689	ERDS2TJ270T	27 1/4W	[M]
R1690	ERDS2TJ270T	27 1/4W	[M]
R1691	ERDS2TJ270T	27 1/4W	[M]
R1692	ERDS2TJ270T	27 1/4W	[M]
R1693	ERDS2TJ270T	27 1/4W	[M]
R1694	ERDS2TJ270T	27 1/4W	[M]
R1695	ERDS2TJ102T	1K 1/4W	[M]
R1696	ERDS2TJ102T	1K 1/4W	[M]
R1699	ERDS2TJ332T	3.3K 1/4W	[M]
R1701	ERDS1FVJ2R2T	2.2 1/2W	[M] ⚠
R1702	ERDS1FVJ1R0T	1 1/2W	[M] ⚠
R1703	ERJ3GEYJ272V	2.7K 1/16W	[M] ⚠
R1704	ERJ3GEYJ471V	470 1/16W	[M] ⚠
R1705	ERJ3GEYJ151V	150 1/16W	[M]
R1706	D0GB151JA008	150 1/16W	[M]
R1801	ERJ3GEYJ102V	1K 1/16W	[M]
R1802	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1803	ERJ3GEYJ102V	1K 1/16W	[M]
R1804	ERJ3GEYJ471V	470 1/16W	[M]
R1805	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1806	ERJ3GEYJ102V	1K 1/16W	[M]
R1807	ERJ3GEYJ471V	470 1/16W	[M]
R1808	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1810	ERJ3GEYJ102V	1K 1/16W	[M]
R1811	ERJ3GEYJ102V	1K 1/16W	[M]
R1812	ERJ3GEYJ102V	1K 1/16W	[M]
R1813	ERJ3GEYJ102V	1K 1/16W	[M]
R1814	ERJ3GEYJ102V	1K 1/16W	[M]
R1815	ERJ3GEYJ102V	1K 1/16W	[M]
R1816	ERJ3GEYJ471V	470 1/16W	[M]
R1817	ERJ3GEYJ471V	470 1/16W	[M]
R1818	ERJ3GEYJ471V	470 1/16W	[M]
R1819	ERJ3GEYJ102V	1K 1/16W	[M]
R1820	ERJ3GEYJ102V	1K 1/16W	[M]
R1821	ERJ3GEYJ471V	470 1/16W	[M]
R1824	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1825	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1826	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1827	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1828	ERJ3GEYJ102V	1K 1/16W	[M]
R1829	ERJ3GEYJ102V	1K 1/16W	[M]
R1830	ERJ3GEYJ102V	1K 1/16W	[M]
R1831	ERJ3GEYJ102V	1K 1/16W	[M]
R1832	ERJ3GEYJ102V	1K 1/16W	[M]
R1833	ERJ3GEYJ102V	1K 1/16W	[M]
R1834	ERJ3GEYJ471V	470 1/16W	[M]
R1835	ERJ3GEYJ471V	470 1/16W	[M]
R1836	ERJ3GEYJ471V	470 1/16W	[M]
R1837	ERJ3GEYJ102V	1K 1/16W	[M]
R1838	ERJ3GEYJ102V	1K 1/16W	[M]
R1839	ERJ3GEYJ471V	470 1/16W	[M]
R1842	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1843	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1844	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1845	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1846	ERJ3GEYJ102V	1K 1/16W	[M]
R1847	ERJ3GEYJ102V	1K 1/16W	[M]
R1848	ERJ3GEYJ102V	1K 1/16W	[M]
R1849	ERJ3GEYJ102V	1K 1/16W	[M]
R1850	ERJ3GEYJ102V	1K 1/16W	[M]
R1851	ERJ3GEYJ102V	1K 1/16W	[M]
R1852	ERJ3GEYJ471V	470 1/16W	[M]
R1853	ERJ3GEYJ471V	470 1/16W	[M]
R1854	ERJ3GEYJ471V	470 1/16W	[M]
R1855	ERJ3GEYJ102V	1K 1/16W	[M]
R1856	ERJ3GEYJ102V	1K 1/16W	[M]
R1857	ERJ3GEYJ471V	470 1/16W	[M]
R1860	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1861	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1862	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1863	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1864	ERJ3GEYJ103V	10K 1/16W	[M]
R1865	ERJ3GEYJ103V	10K 1/16W	[M]
R1866	ERJ3GEYJ103V	10K 1/16W	[M]
R1867	ERJ3GEYJ103V	10K 1/16W	[M]
R1870	ERJ3GEYJ103V	10K 1/16W	[M]
R1871	ERJ3GEYJ103V	10K 1/16W	[M]
R1872	ERJ3GEYJ103V	10K 1/16W	[M]
R1873	ERJ3GEYJ103V	10K 1/16W	[M]
R1875	ERJ3GEYJ103V	10K 1/16W	[M]
R1876	ERJ3GEYJ103V	10K 1/16W	[M]
R1877	ERJ3GEYJ103V	10K 1/16W	[M]
R1878	ERJ3GEYJ103V	10K 1/16W	[M]
R1879	ERJ3GEYJ103V	10K 1/16W	[M]
R1880	ERJ3GEYJ103V	10K 1/16W	[M]
R1881	ERJ3GEYJ103V	10K 1/16W	[M]
R1882	ERJ3GEYJ103V	10K 1/16W	[M]
R1951	ERJ3GEYJ103V	10K 1/16W	[M]
R1952	ERJ3GEYJ103V	10K 1/16W	[M]
R1953	ERJ3GEYJ103V	10K 1/16W	[M]
R1954	ERJ3GEYJ103V	10K 1/16W	[M]
R1955	ERJ3GEYJ103V	10K 1/16W	[M]
R1956	ERJ3GEYJ103V	10K 1/16W	[M]
R1958	ERJ3GEYJ102V	1K 1/16W	[M]
R1960	ERJ3GEYJ104V	100K 1/16W	[M]
R1961	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1962	ERJ3GEYJ104V	100K 1/16W	[M]
R1963	ERJ3GEYJ121V	120 1/16W	[M]
R1964	ERJ3GEYJ271V	270 1/16W	[M]
R1970	ERJ3GEYJ101V	100 1/16W	[M]
R1971	ERJ3GEYJ101V	100 1/16W	[M]
R1972	ERJ3GEYJ101V	100 1/16W	[M]
R1973	ERJ3GEYJ101V	100 1/16W	[M]
R1974	ERJ3GEYJ101V	100 1/16W	[M]
R1975	ERJ3GEYJ101V	100 1/16W	[M]
R1976	ERJ3GEYJ101V	100 1/16W	[M]
		CAPACITORS	
C301	ECA1CAK470XB	47 16V	[M]
C301	F1D1H470A006	47P 50V	[M]
C302	F1D1E223A001	0.022 25V	[M]
C302	F1D1H470A006	47P 50V	[M]
C303	F1D1H470A006	47P 50V	[M]
C304	ECA1CAK470XB	47 16V	[M]
C305	ECA1CAK470XB	47 16V	[M]
C306	ECA1CAK470XB	47 16V	[M]
C307	ECA1CAK470XB	47 16V	[M]
C308	F1D1H223A012	0.022 50V	[M]
C309	F1D1H470A006	47P 50V	[M]
C310	ECBT1H103KB5	0.01 50V	[M]
C311	F1D1H223A012	0.022 50V	[M]
C312	F1D1H223A012	0.022 50V	[M]
C313	F1D1H223A012	0.022 50V	[M]
C314	F1D1H470A006	47P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C315	F1D1H470A006	47P 50V	[M]
C319	F1D1H223A012	0.022 50V	[M]
C321	F1D1H1040002	0.1 50V	[M]
C322	F1D1H1040002	0.1 50V	[M]
C323	ECA0JAK101XB	100 6.3V	[M]
C324	ECA0JAK101XB	100 6.3V	[M]
C325	ECA1CAK470XB	47 16V	[M]
C326	F1D1H1040002	0.1 50V	[M]
C327	F1D1H1040002	0.1 50V	[M]
C328	ECA0JAK101XB	100 6.3V	[M]
C329	ECA0JAK101XB	100 6.3V	[M]
C331	F1D1H331A012	330P 50V	[M]
C332	ECA1HAK4R7XB	4.7 50V	[M]
C335	ECBT1H103KB5	0.01 50V	[M]
C336	ECBT1H103KB5	0.01 50V	[M]
C337	ECA1EAK470XB	47 25V	[M]
C338	F1D1H471A012	470P 50V	[M]
C351	ECBT1H103KB5	0.01 50V	[M]
C351	F1D1H331A012	330P 50V	[M]
C352	ECA1CAK470XB	47 16V	[M]
C352	ECBT1H103KB5	0.01 50V	[M]
C353	ECA1CAK470XB	47 16V	[M]
C354	ECA1CAK470XB	47 16V	[M]
C355	ECA1CAK470XB	47 16V	[M]
C356	F1D1H470A006	47P 50V	[M]
C358	F1D1H331A012	330P 50V	[M]
C360	ECA1HAK4R7XB	4.7 50V	[M]
C361	F1D1H470A006	47P 50V	[M]
C362	ECA1HAK4R7XB	4.7 50V	[M]
C363	ECBT1H103KB5	0.01 50V	[M]
C366	F1D1H1040002	0.1 50V	[M]
C370	F1D1H470A006	47P 50V	[M]
C371	F1D1H1040002	0.1 50V	[M]
C373	ECA1EAK470XB	47 25V	[M]
C374	ECA1EAK470XB	47 25V	[M]
C375	F1D1H1040002	0.1 50V	[M]
C376	F1D1H471A012	470P 50V	[M]
C377	ECBT1H103KB5	0.01 50V	[M]
C378	ECA0JAK101XB	100 6.3V	[M]
C379	ECA0JAK101XB	100 6.3V	[M]
C380	F1D1H1040002	0.1 50V	[M]
C381	ECA1EAK100XB	10 25V	[M]
C382	ECBT1H103KB5	0.01 50V	[M]
C383	ECA0JAK101XB	100 6.3V	[M]
C384	ECA0JAK101XB	100 6.3V	[M]
C385	ECBT1H103KB5	0.01 50V	[M]
C386	ECA1EAK100XB	10 25V	[M]
C387	ECBT1H103KB5	0.01 50V	[M]
C388	ECBT1H103KB5	0.01 50V	[M]
C390	ECA1EAK470XB	47 25V	[M]
C392	ECA1CAK470XB	47 16V	[M]
C393	ECA0JAK101XB	100 6.3V	[M]
C394	ECA0JAK101XB	100 6.3V	[M]
C401	ECA1JPX4R7B	4.7 63V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C402	ECA1JPX4R7B	4.7 63V	[M]
C403	ECBT1H103KB5	0.01 50V	[M]
C404	ECBT1H103KB5	0.01 50V	[M]
C405	F1D1H101A012	100P 50V	[M]
C406	F1D1H101A012	100P 50V	[M]
C407	ECBT1H103KB5	0.01 50V	[M]
C408	ECBT1H103KB5	0.01 50V	[M]
C409	ECA1EPX470B	47 25V	[M]
C410	ECA1EPX470B	47 25V	[M]
C411	F1D1H101A012	100P 50V	[M]
C412	F1D1H101A012	100P 50V	[M]
C413	ECA1HPX100B	10 50V	[M]
C414	ECA1HPX100B	10 50V	[M]
C415	ECBT1H103KB5	0.01 50V	[M]
C416	ECBT1H103KB5	0.01 50V	[M]
C417	ECA1HPX100B	10 50V	[M]
C418	ECA1HPX100B	10 50V	[M]
C419	ECA1JPX4R7B	4.7 63V	[M]
C420	ECA1JPX4R7B	4.7 63V	[M]
C421	F1D1H101A012	100P 50V	[M]
C422	F1D1H101A012	100P 50V	[M]
C423	F1D1H101A012	100P 50V	[M]
C424	F1D1H101A012	100P 50V	[M]
C425	F1D1H331A012	330P 50V	[M]
C426	F1D1H331A012	330P 50V	[M]
C427	F1D1H331A012	330P 50V	[M]
C428	F1D1H331A012	330P 50V	[M]
C429	F1D1H101A012	100P 50V	[M]
C430	F1D1H101A012	100P 50V	[M]
C431	F1D1H101A012	100P 50V	[M]
C432	F1D1H101A012	100P 50V	[M]
C433	F1D1H101A012	100P 50V	[M]
C434	F1D1H101A012	100P 50V	[M]
C435	F1D1H101A012	100P 50V	[M]
C436	F1D1H101A012	100P 50V	[M]
C437	F1D1H101A012	100P 50V	[M]
C438	F1D1H101A012	100P 50V	[M]
C439	F1D1H101A012	100P 50V	[M]
C440	F1D1H101A012	100P 50V	[M]
C441	F1D1H101A012	100P 50V	[M]
C442	F1D1H101A012	100P 50V	[M]
C443	ECBT1H103KB5	0.01 50V	[M]
C444	ECBT1H103KB5	0.01 50V	[M]
C449	ECBT1H103KB5	0.01 50V	[M]
C451	ECA1HAK4R7XB	4.7 50V	[M]
C452	ECA1HAK4R7XB	4.7 50V	[M]
C453	F1D1H100A015	10P 50V	[M]
C454	F1D1H100A015	10P 50V	[M]
C455	F1D1H102A012	1000P 50V	[M]
C456	F1D1H102A012	1000P 50V	[M]
C457	ECA1AAK330XB	33 10V	[M]
C458	ECA1AAK330XB	33 10V	[M]
C459	ECFR1E223KR	0.022 25V	[M]
C460	ECFR1E223KR	0.022 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C461	ECFR1E682KR	6800P 25V	[M]
C462	ECFR1E682KR	6800P 25V	[M]
C463	ECA1HAK4R7XB	4.7 50V	[M]
C464	ECA1HAK4R7XB	4.7 50V	[M]
C465	ECBT1H103KB5	0.01 50V	[M]
C466	ECBT1H103KB5	0.01 50V	[M]
C467	ECBT1H103KB5	0.01 50V	[M]
C469	ECBT1H181KB5	180P 50V	[M]
C470	ECBT1H181KB5	180P 50V	[M]
C489	ECA1CAK330XB	33 16V	[M]
C490	ECA1CAK330XB	33 16V	[M]
C501	ECA1EPX470B	47 25V	[M]
C502	ECA1EPX470B	47 25V	[M]
C535	F1D1H1040002	0.1 50V	[M]
C536	F1D1H1040002	0.1 50V	[M]
C541	ECA1EPX470B	47 25V	[M]
C551	ECA1EPX470B	47 25V	[M]
C552	ECA1EPX470B	47 25V	[M]
C591	ECA1EPX470B	47 25V	[M]
C601	ECA1EPX470B	47 25V	[M]
C602	ECA1EPX470B	47 25V	[M]
C603	F1D1H101A012	100P 50V	[M]
C604	F1D1H101A012	100P 50V	[M]
C607	ECCR1H180KC5	18P 50V	[M]
C608	ECCR1H180KC5	18P 50V	[M]
C611	ECQV1H104JZ3	0.1 50V	[M]
C612	ECQV1H104JZ3	0.1 50V	[M]
C613	ECQV1H104JZ3	0.1 50V	[M]
C614	ECQV1H104JZ3	0.1 50V	[M]
C616	ECA1EAM101XB	100 25V	[M]
C617	ECEA2AN2R2SB	2.2 100V	[M]
C618	F1D1H102A012	1000P 50V	[M]
C621	ECA1JPX470TB	47 63V	[M]
C622	ECA1JPX470TB	47 63V	[M]
C625	ECA1HAM470XB	47 50V	[M]
C626	ECA1HAM470XB	47 50V	[M]
C627	ECA1HAM470XB	47 50V	[M]
C628	ECA1HAM470XB	47 50V	[M]
C631	ECQB1H223JM3	0.022 50V	[M]
C632	ECQB1H223JM3	0.022 50V	[M]
C633	ECQB1H223JM3	0.022 50V	[M]
C634	ECQB1H223JM3	0.022 50V	[M]
C635	ECBT1H103KB5	0.01 50V	[M]
C636	ECQB1H223JM3	0.022 50V	[M]
C637	ECQB1H223JM3	0.022 50V	[M]
C638	ECQB1H223JM3	0.022 50V	[M]
C639	ECQB1H223JM3	0.022 50V	[M]
C641	ECA1EPX470B	47 25V	[M]
C642	F1D1H101A012	100P 50V	[M]
C643	ECCR1H180KC5	18P 50V	[M]
C644	ECQV1H104JZ3	0.1 50V	[M]
C645	ECQV1H104JZ3	0.1 50V	[M]
C647	F1D1H101A012	100P 50V	[M]
C651	ECA1EPX470B	47 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C652	ECA1EPX470B	47 25V	[M]
C653	F1D1H101A012	100P 50V	[M]
C654	F1D1H101A012	100P 50V	[M]
C657	ECCR1H180KC5	18P 50V	[M]
C658	ECCR1H180KC5	18P 50V	[M]
C661	ECQV1H104JZ3	0.1 50V	[M]
C662	ECQV1H104JZ3	0.1 50V	[M]
C663	ECQV1H104JZ3	0.1 50V	[M]
C664	ECQV1H104JZ3	0.1 50V	[M]
C665	ECBT1H103KB5	0.01 50V	[M]
C666	ECA1EAM101XB	100 25V	[M]
C667	ECEA2AN2R2SB	2.2 100V	[M]
C668	F1D1H102A012	1000P 50V	[M]
C669	ECQV1H104JZ3	0.1 50V	[M]
C670	ECQV1H104JZ3	0.1 50V	[M]
C671	ECA1JPX470TB	47 63V	[M]
C672	ECA1JPX470TB	47 63V	[M]
C691	ECA1EPX470B	47 25V	[M]
C693	ECCR1H180KC5	18P 50V	[M]
C701	ECBT1H103KB5	0.01 50V	[M]
C702	ECQE2104KF3	0.1 250V	[M]
C703	ECETX1J103YZ	0.01 63V	[M]
C704	ECETX1J103YZ	0.01 63V	[M]
C705	ECESX1V103UZ	0.01 35V	[M]
C706	ECESX1V103UZ	0.01 35V	[M]
C707	ECA1VAM101XB	100 35V	[M]
C708	ECBT1H103KB5	0.01 50V	[M]
C709	ECA1CAK330XB	33 16V	[M]
C710	ECBT1H103KB5	0.01 50V	[M]
C711	ECBT1H103KB5	0.01 50V	[M]
C712	ECA1HAK100XB	10 50V	[M]
C713	ECBT1H103KB5	0.01 50V	[M]
C714	ECA1EPX470B	47 25V	[M]
C715	ECA1CAK101XB	100 16V	[M]
C721	ECQE2104KF3	0.1 250V	[M]
C722	ECQE2104KF3	0.1 250V	[M]
C741	ECQE2104KF3	0.1 250V	[M]
C742	ECA1CAM222XE	2200 16V	[M]
C751	ECKWRS102MBC	1000P 400V	[M] ⚠
C752	ECKR1H103ZF5	0.01 50V	[M]
C753	ECA1EAM331XB	330 25V	[M]
C754	ECBT1H103KB5	0.01 50V	[M]
C755	ECA1CAK470XB	47 16V	[M]
C757	ECA1CAK100XB	10 16V	[M]
C771	ECA1HAK4R7XB	4.7 50V	[M]
C772	ECA1HAK4R7XB	4.7 50V	[M]
C773	F1D1H1040002	0.1 50V	[M]
C774	ECA0JAK101XB	100 6.3V	[M]
C775	ECA1CAK100XB	10 16V	[M]
C776	ECA1HAK010XB	1 50V	[M]
C777	ECA1CAM221XB	220 16V	[M]
C778	ECA1CAK101XB	100 16V	[M]
C779	ECA1CAK101XB	100 16V	[M]
C780	ECA1EAM471XB	470 25V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C781	ECBT1H103KB5	0.01 50V	[M]
C901	ECEA0JU102B	1000 6.3V	[M]
C902	F1D1H1040002	0.1 50V	[M]
C903	ECBT1H103KB5	0.01 50V	[M]
C904	ECEA0JU102B	1000 6.3V	[M]
C905	ECA1HAK010XB	1 50V	[M]
C906	ECA1HAK010XB	1 50V	[M]
C907	ECBT1H103KB5	0.01 50V	[M]
C908	ECBT1H103KB5	0.01 50V	[M]
C909	ECA1HAK220XB	22 50V	[M]
C910	ECA1HAK220XB	22 50V	[M]
C911	ECA1HAK220XB	22 50V	[M]
C912	ECA1HAK220XB	22 50V	[M]
C913	ECA1HAK100XB	10 50V	[M]
C914	ECA1HAK100XB	10 50V	[M]
C915	ECA0JAK101XB	100 6.3V	[M]
C916	ECBT1H103KB5	0.01 50V	[M]
C917	ECA1CAK100XB	10 16V	[M]
C921	F1D1H331A012	330P 50V	[M]
C922	F1D1H331A012	330P 50V	[M]
C923	F1D1H331A012	330P 50V	[M]
C924	F1D1H331A012	330P 50V	[M]
C925	F1D1H331A012	330P 50V	[M]
C926	F1D1H331A012	330P 50V	[M]
C927	F1D1H331A012	330P 50V	[M]
C928	F1D1H331A012	330P 50V	[M]
C929	F1D1H331A012	330P 50V	[M]
C930	F1D1H331A012	330P 50V	[M]
C931	F1D1H101A012	100P 50V	[M]
C932	F1D1E103A001	0.01 25V	[M]
C933	F1D1H101A012	100P 50V	[M]
C934	F1D1H101A012	100P 50V	[M]
C935	ECA1CAK100XB	10 16V	[M]
C960	ECBT1H103KB5	0.01 50V	[M]
C970	F1D1H102A012	1000P 50V	[M]
C971	ECA0JAK101XB	100 6.3V	[M]
C972	F1D1H470A006	47P 50V	[M]
C973	F1D1H470A006	47P 50V	[M]
C974	F1D1H561A012	560P 50V	[M]
C975	F1D1H561A012	560P 50V	[M]
C976	ECA1CAK100XB	10 16V	[M]
C977	ECBT1H103KB5	0.01 50V	[M]
C978	ECA0JAK101XB	100 6.3V	[M]
C991	F1D1H101A012	100P 50V	[M]
C992	F1D1H101A012	100P 50V	[M]
C993	F1D1H101A012	100P 50V	[M]
C994	F1D1H101A012	100P 50V	[M]
C1001	ECUVNC104ZFV	0.1 16V	[M]
C1002	ECUVNC104ZFV	0.1 16V	[M]
C1003	ECUVNC104ZFV	0.1 16V	[M]
C1004	ECUVNC104ZFV	0.1 16V	[M]
C1012	ECJ1VF1C104Z	0.1 16V	[M]
C1013	ECUVNC104ZFV	0.1 16V	[M]
C1015	ECUV1H103KBV	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1016	ECUVNC104ZFV	0.1 16V	[M]
C1018	ECJ1VB1H102K	1000P 50V	[M]
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1020	ECJ1VB1H102K	1000P 50V	[M]
C1021	ECUVNC104ZFV	0.1 16V	[M]
C1022	ECUVNC104ZFV	0.1 16V	[M]
C1023	ECUVNC104ZFV	0.1 16V	[M]
C1024	ECUVNC104ZFV	0.1 16V	[M]
C1025	ECUV1H101JCV	100P 50V	[M]
C1026	ECUV1H101JCV	100P 50V	[M]
C1027	ECUV1H101JCV	100P 50V	[M]
C1028	ECUV1H101JCV	100P 50V	[M]
C1029	ECUVNC104ZFV	0.1 16V	[M]
C1030	ECA1HAKR47XB	0.47 50V	[M]
C1031	ECA1CAK100XB	10 16V	[M]
C1032	ECA1CAK100XB	10 16V	[M]
C1033	ECUVNC104ZFV	0.1 16V	[M]
C1034	ECUVNC104ZFV	0.1 16V	[M]
C1035	ECA1CAK100XB	10 16V	[M]
C1036	ECUV1H103KBV	0.01 50V	[M]
C1037	ECUVNC104ZFV	0.1 16V	[M]
C1038	ECUVNC104ZFV	0.1 16V	[M]
C1039	ECUV1H220JCV	22P 50V	[M]
C1040	ECA0JAK101XB	100 6.3V	[M]
C1041	ECUV1H220JCV	22P 50V	[M]
C1042	ECUV1H330JCV	33P 50V	[M]
C1043	ECA0JAK101XB	100 6.3V	[M]
C1044	ECUVNC104ZFV	0.1 16V	[M]
C1045	ECA0JAK101XB	100 6.3V	[M]
C1046	ECA0JAK101XB	100 6.3V	[M]
C1047	ECUVNC104ZFV	0.1 16V	[M]
C1048	ECA0JAK101XB	100 6.3V	[M]
C1049	ECA0JAK101XB	100 6.3V	[M]
C1050	ECA0JAK101XB	100 6.3V	[M]
C1051	ECA0JAK101XB	100 6.3V	[M]
C1052	ECA0JAK101XB	100 6.3V	[M]
C1053	ECUVNC104ZFV	0.1 16V	[M]
C1054	ECUVNC104ZFV	0.1 16V	[M]
C1055	ECUVNC104ZFV	0.1 16V	[M]
C1056	ECUVNC104ZFV	0.1 16V	[M]
C1057	ECA1HAK2R2XB	2.2 50V	[M]
C1058	ECA1HAK2R2XB	2.2 50V	[M]
C1059	ECUV1H471KBV	470P 50V	[M]
C1060	ECUV1H103KBV	0.01 50V	[M]
C1061	ECA0JAK101XB	100 6.3V	[M]
C1062	ECUV1H471KBV	470P 50V	[M]
C1063	ECUV1H103KBV	0.01 50V	[M]
C1064	ECA0JAK101XB	100 6.3V	[M]
C1065	ECUVNC104ZFV	0.1 16V	[M]
C1066	ECUVNC104ZFV	0.1 16V	[M]
C1067	ECUV1H101JCV	100P 50V	[M]
C1068	ECUV1H101JCV	100P 50V	[M]
C1069	ECUV1H101JCV	100P 50V	[M]
C1070	ECUV1H101JCV	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1071	ECUVNC104ZFV	0.1 16V	[M]
C1072	ECUVNC104ZFV	0.1 16V	[M]
C1073	ECUV1H101JCV	100P 50V	[M]
C1074	ECUV1H101JCV	100P 50V	[M]
C1075	ECA1EPXS100B	10 25V	[M]
C1076	ECA1APX101B	100 10V	[M]
C1077	ECUVNC104ZFV	0.1 16V	[M]
C1078	ECUVNC104ZFV	0.1 16V	[M]
C1079	ECUV1H222KBV	2200P 50V	[M]
C1080	ECUV1H222KBV	2200P 50V	[M]
C1081	ECUV1H330JCV	33P 50V	[M]
C1112	ECUVNC104ZFV	0.1 16V	[M]
C1301	ECJ1VB1H102K	1000P 50V	[M]
C1302	ECJ1VB1H102K	1000P 50V	[M]
C1303	ECJ1VB1H102K	1000P 50V	[M]
C1304	ECJ1VB1H102K	1000P 50V	[M]
C1305	ECJ1VB1H102K	1000P 50V	[M]
C1306	ECJ1VB1H102K	1000P 50V	[M]
C1307	ECA1HPXS4R7B	4.7 50V	[M]
C1308	ECA1HPXS4R7B	4.7 50V	[M]
C1309	ECA1HPXS4R7B	4.7 50V	[M]
C1310	ECA1HPXS4R7B	4.7 50V	[M]
C1311	ECA1HPXS4R7B	4.7 50V	[M]
C1312	ECA1HPXS4R7B	4.7 50V	[M]
C1313	ECA1EPXS100B	10 25V	[M]
C1314	ECUV1H103KBV	0.01 50V	[M]
C1315	ECUV1H471KBV	470P 50V	[M]
C1316	ECA1EPXS100B	10 25V	[M]
C1317	ECA1EPXS100B	10 25V	[M]
C1318	ECUV1H103KBV	0.01 50V	[M]
C1319	ECUV1H103KBV	0.01 50V	[M]
C1320	ECA1EPXS100B	10 25V	[M]
C1321	ECUV1H103KBV	0.01 50V	[M]
C1322	ECUV1H471KBV	470P 50V	[M]
C1323	ECUV1H471KBV	470P 50V	[M]
C1324	ECA1EPXS100B	10 25V	[M]
C1325	ECA1EPXS100B	10 25V	[M]
C1326	ECUV1H103KBV	0.01 50V	[M]
C1327	ECUV1H103KBV	0.01 50V	[M]
C1330	ECJ1VF1C104Z	0.1 16V	[M]
C1401	ECA1HPXS4R7B	4.7 50V	[M]
C1402	ECA1HPXS4R7B	4.7 50V	[M]
C1403	ECUV1H103KBV	0.01 50V	[M]
C1404	ECUV1H103KBV	0.01 50V	[M]
C1405	ECA1HPXS4R7B	4.7 50V	[M]
C1406	ECA1EPX470B	47 25V	[M]
C1407	ECA1EPX470B	47 25V	[M]
C1408	ECUV1H103KBV	0.01 50V	[M]
C1409	ECUV1H103KBV	0.01 50V	[M]
C1410	ECA1HPXS4R7B	4.7 50V	[M]
C1411	ECUV1H101JCV	100P 50V	[M]
C1412	ECA1HPXS4R7B	4.7 50V	[M]
C1413	ECA1HPXS4R7B	4.7 50V	[M]
C1414	ECUV1H103KBV	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1415	ECUV1H103KBV	0.01 50V	[M]
C1416	ECA1HPXS4R7B	4.7 50V	[M]
C1417	ECA1EPX470B	47 25V	[M]
C1418	ECA1EPX470B	47 25V	[M]
C1419	ECUV1H103KBV	0.01 50V	[M]
C1420	ECUV1H103KBV	0.01 50V	[M]
C1421	ECA1HPXS4R7B	4.7 50V	[M]
C1422	ECA1HPXS4R7B	4.7 50V	[M]
C1423	ECA1HPXS4R7B	4.7 50V	[M]
C1424	ECA1HPXS4R7B	4.7 50V	[M]
C1425	ECUV1H101JCV	100P 50V	[M]
C1501	ECA1HPXS4R7B	4.7 50V	[M]
C1502	ECA1HPXS4R7B	4.7 50V	[M]
C1503	ECA1HPXS4R7B	4.7 50V	[M]
C1504	ECUV1H101JCV	100P 50V	[M]
C1505	ECUV1H103KBV	0.01 50V	[M]
C1506	ECUV1H101JCV	100P 50V	[M]
C1507	ECUV1H103KBV	0.01 50V	[M]
C1508	ECUV1H103KBV	0.01 50V	[M]
C1509	ECUV1H103KBV	0.01 50V	[M]
C1510	ECUV1H103KBV	0.01 50V	[M]
C1511	ECA1EPX470B	47 25V	[M]
C1512	ECA1EPX470B	47 25V	[M]
C1513	ECA1EPX470B	47 25V	[M]
C1514	ECA1EPX470B	47 25V	[M]
C1515	ECEA1CKN100B	10 16V	[M]
C1516	ECEA1CKN100B	10 16V	[M]
C1517	ECA1HPXS4R7B	4.7 50V	[M]
C1518	ECA1HPXS4R7B	4.7 50V	[M]
C1519	ECJ1VB1H391K	390P 50V	[M]
C1520	ECA1HPXS4R7B	4.7 50V	[M]
C1521	ECA1HPXS4R7B	4.7 50V	[M]
C1522	ECJ1VB1H391K	390P 50V	[M]
C1523	ECA1EPXS100B	10 25V	[M]
C1524	ECUV1H101JCV	100P 50V	[M]
C1525	ECUV1H101JCV	100P 50V	[M]
C1526	ECUV1H101JCV	100P 50V	[M]
C1527	ECUV1H101JCV	100P 50V	[M]
C1528	ECA1EPXS100B	10 25V	[M]
C1530	ECA1EPXS100B	10 25V	[M]
C1532	ECEA1CKN100B	10 16V	[M]
C1533	ECEA1CKN100B	10 16V	[M]
C1534	ECUV1H103KBV	0.01 50V	[M]
C1535	ECUV1H103KBV	0.01 50V	[M]
C1536	ECJ1VB1H391K	390P 50V	[M]
C1537	ECA1EPX470B	47 25V	[M]
C1538	ECJ1VB1H391K	390P 50V	[M]
C1539	ECUV1H271KBV	270P 50V	[M]
C1540	ECA1EPXS100B	10 25V	[M]
C1541	ECUV1H271KBV	270P 50V	[M]
C1542	ECUV1H103KBV	0.01 50V	[M]
C1543	ECA1EPX470B	47 25V	[M]
C1550	ECA1HPXS4R7B	4.7 50V	[M]
C1551	ECUV1H101JCV	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1681	ECBT1H103KB5	0.01 50V	[M]
C1682	ECBT1H103KB5	0.01 50V	[M]
C1683	ECBT1C332KR5	3300P 16V	[M]
C1684	ECBT1C332KR5	3300P 16V	[M]
C1685	ECBT1H103KB5	0.01 50V	[M]
C1701	ECA1AM332E	3300 10V	[M]
C1702	ECA1APX101B	100 10V	[M]
C1703	ECUV1H103KBV	0.01 50V	[M]
C1704	ECA1EPXS100B	10 25V	[M]
C1705	ECA1CAK220XB	22 16V	[M]
C1706	ECJ1VB1H391K	390P 50V	[M]
C1707	ECJ1VB1H391K	390P 50V	[M]
C1708	ECA1CAK220XB	22 16V	[M]
C1709	ECUV1H103KBV	0.01 50V	[M]
C1801	ECA1APX101B	100 10V	[M]
C1802	ECUVNC104ZFV	0.1 16V	[M]
C1803	ECUVNC104ZFV	0.1 16V	[M]
C1804	ECUVNC104ZFV	0.1 16V	[M]
C1805	ECUV1H103KBV	0.01 50V	[M]
C1806	ECA1APX101B	100 10V	[M]
C1807	ECA1CPXS330B	33 16V	[M]
C1808	ECA1APX101B	100 10V	[M]
C1809	ECUV1H103KBV	0.01 50V	[M]
C1810	ECA1HPX100B	10 50V	[M]
C1811	ECUV1H103KBV	0.01 50V	[M]
C1812	ECUV1H103KBV	0.01 50V	[M]
C1813	ECUV1H562KBV	5600P 50V	[M]
C1814	ECA1HPX100B	10 50V	[M]
C1815	ECA1HPX100B	10 50V	[M]
C1816	ECUV1H152KBV	1500P 50V	[M]
C1817	ECUV1H562KBV	5600P 50V	[M]
C1818	ECUV1H471KBV	470P 50V	[M]
C1819	ECUV1H152KBV	1500P 50V	[M]
C1820	ECUV1H181JCV	180P 50V	[M]
C1822	ECA1APX101B	100 10V	[M]
C1823	ECUVNC104ZFV	0.1 16V	[M]
C1824	ECUVNC104ZFV	0.1 16V	[M]
C1825	ECUVNC104ZFV	0.1 16V	[M]
C1826	ECUV1H103KBV	0.01 50V	[M]
C1827	ECA1APX101B	100 10V	[M]
C1828	ECA1CPXS330B	33 16V	[M]
C1829	ECA1APX101B	100 10V	[M]
C1830	ECUV1H103KBV	0.01 50V	[M]
C1831	ECA1HPX100B	10 50V	[M]
C1832	ECUV1H562KBV	5600P 50V	[M]
C1833	ECUV1H562KBV	5600P 50V	[M]
C1834	ECUV1H152KBV	1500P 50V	[M]
C1835	ECUV1H562KBV	5600P 50V	[M]
C1836	ECUV1H152KBV	1500P 50V	[M]
C1837	ECUV1H562KBV	5600P 50V	[M]
C1838	ECUV1H471KBV	470P 50V	[M]
C1839	ECUV1H471KBV	470P 50V	[M]
C1840	ECUV1H152KBV	1500P 50V	[M]
C1841	ECUV1H152KBV	1500P 50V	[M]

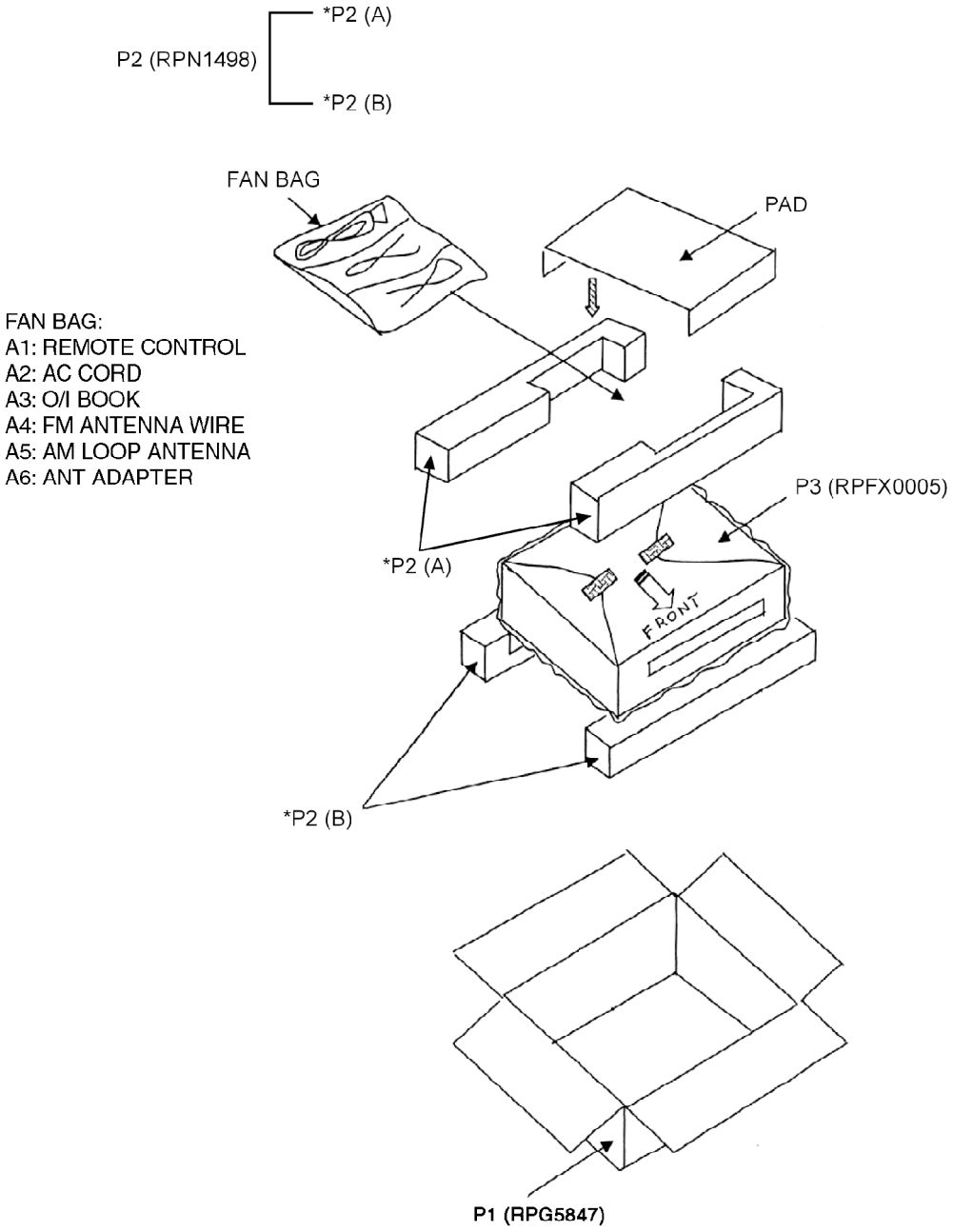
Ref. No.	Part No.	Part Name & Description	Remarks
C1843	ECUV1H103KBV	0.01 50V	[M]
C1844	ECUV1H103KBV	0.01 50V	[M]
C1845	ECA1EPX470B	47 25V	[M]
C1846	ECA1EPX470B	47 25V	[M]
C1848	ECUV1H181JCV	180P 50V	[M]
C1849	ECUV1H181JCV	180P 50V	[M]
C1850	ECA1APX101B	100 10V	[M]
C1851	ECUVNC104ZFV	0.1 16V	[M]
C1852	ECUVNC104ZFV	0.1 16V	[M]
C1853	ECUVNC104ZFV	0.1 16V	[M]
C1854	ECUV1H103KBV	0.01 50V	[M]
C1855	ECA1APX101B	100 10V	[M]
C1856	ECA1CPXS330B	33 16V	[M]
C1857	ECA1APX101B	100 10V	[M]
C1858	ECUV1H103KBV	0.01 50V	[M]
C1859	ECA1HPX100B	10 50V	[M]
C1860	ECUV1H562KBV	5600P 50V	[M]
C1861	ECUV1H562KBV	5600P 50V	[M]
C1862	ECUV1H152KBV	1500P 50V	[M]
C1863	ECUV1H562KBV	5600P 50V	[M]
C1864	ECUV1H152KBV	1500P 50V	[M]
C1865	ECUV1H562KBV	5600P 50V	[M]
C1866	ECUV1H471KBV	470P 50V	[M]
C1867	ECUV1H471KBV	470P 50V	[M]
C1868	ECUV1H152KBV	1500P 50V	[M]
C1869	ECUV1H152KBV	1500P 50V	[M]
C1871	ECUV1H103KBV	0.01 50V	[M]
C1872	ECUV1H103KBV	0.01 50V	[M]
C1874	ECA1EPX470B	47 25V	[M]
C1875	ECA1EPX470B	47 25V	[M]
C1876	ECUV1H181JCV	180P 50V	[M]
C1877	ECUV1H181JCV	180P 50V	[M]
C1878	ECA1APX101B	100 10V	[M]
C1879	ECUVNC104ZFV	0.1 16V	[M]
C1880	ECUVNC104ZFV	0.1 16V	[M]
C1881	ECUVNC104ZFV	0.1 16V	[M]
C1882	ECUV1H103KBV	0.01 50V	[M]
C1883	ECA1APX101B	100 10V	[M]
C1884	ECA1CPXS330B	33 16V	[M]
C1885	ECA1APX101B	100 10V	[M]
C1886	ECUV1H103KBV	0.01 50V	[M]
C1887	ECA1HPX100B	10 50V	[M]
C1888	ECUV1H562KBV	5600P 50V	[M]
C1889	ECUV1H562KBV	5600P 50V	[M]
C1890	ECUV1H152KBV	1500P 50V	[M]
C1891	ECUV1H562KBV	5600P 50V	[M]
C1892	ECUV1H152KBV	1500P 50V	[M]
C1893	ECUV1H562KBV	5600P 50V	[M]
C1894	ECUV1H471KBV	470P 50V	[M]
C1895	ECUV1H471KBV	470P 50V	[M]
C1896	ECUV1H152KBV	1500P 50V	[M]
C1897	ECUV1H152KBV	1500P 50V	[M]
C1900	ECUV1H103KBV	0.01 50V	[M]
C1901	ECUV1H103KBV	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1902	ECA1EPX470B	47 25V	[M]
C1903	ECA1EPX470B	47 25V	[M]
C1904	ECUV1H181JCV	180P 50V	[M]
C1905	ECUV1H103KBV	0.01 50V	[M]
C1951	ECUV1H103KBV	0.01 50V	[M]
C1952	ECUV1H103KBV	0.01 50V	[M]
C1953	ECUV1H103KBV	0.01 50V	[M]
C1954	ECUVNC104ZFV	0.1 16V	[M]
C1955	ECA0JAK101XB	100 6.3V	[M]
C1956	ECA1HAK010XB	1 50V	[M]
C1957	ECA1HAK010XB	1 50V	[M]
C1958	ECUV1H103KBV	0.01 50V	[M]
C1959	ECA1EAK470XB	47 25V	[M]
C1960	ECUVNC104ZFV	0.1 16V	[M]
C1970	ECUV1H101JCV	100P 50V	[M]
C1971	ECUV1H101JCV	100P 50V	[M]
C1972	ECUV1H101JCV	100P 50V	[M]
C1973	ECUV1H101JCV	100P 50V	[M]
C1974	ECUV1H101JCV	100P 50V	[M]
C1975	ECUV1H101JCV	100P 50V	[M]
C1976	ECUV1H101JCV	100P 50V	[M]

15.3. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG5847	PACKING CASE	[M]
P2	RPN1498	POLYFOAM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7502XC0	REMOTE CONTROL	[M]
A1-1	UR75EC0103A	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M]EG E ⚠
A2	VJA0733	AC CORD (SF)	[M]EB ⚠
A3	RQT6251-R	O/I BOOK (CZ/PO/RU/SP)	[M]E
A3	RQT6252-B	O/I BOOK (EN)	[M]EB E
A3	RQT6253-D	O/I BOOK (SW/DA/DU/FR/IT/GE)	[M]EG
A3	RQT6256-R	O/I BOOK FOR R/C	[M]E
A3	RQT6257-B	O/I BOOK FOR R/C	[M]EB E
A3	RQT6258-D	O/I BOOK FOR R/C	[M]EG
A3	RQT6478-R	O/I BOOK FOR R/C	[M]E
A3	RQT6479-D	O/I BOOK FOR R/C	[M]EG
A3	RQT6480-D	O/I BOOK FOR R/C	[M]EG
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	N1DAEYA00006	AM LOOP ANTENNA	[M]
A6	K1YZ02000013	ANT ADAPTER	[M]EB

15.4. Packaging



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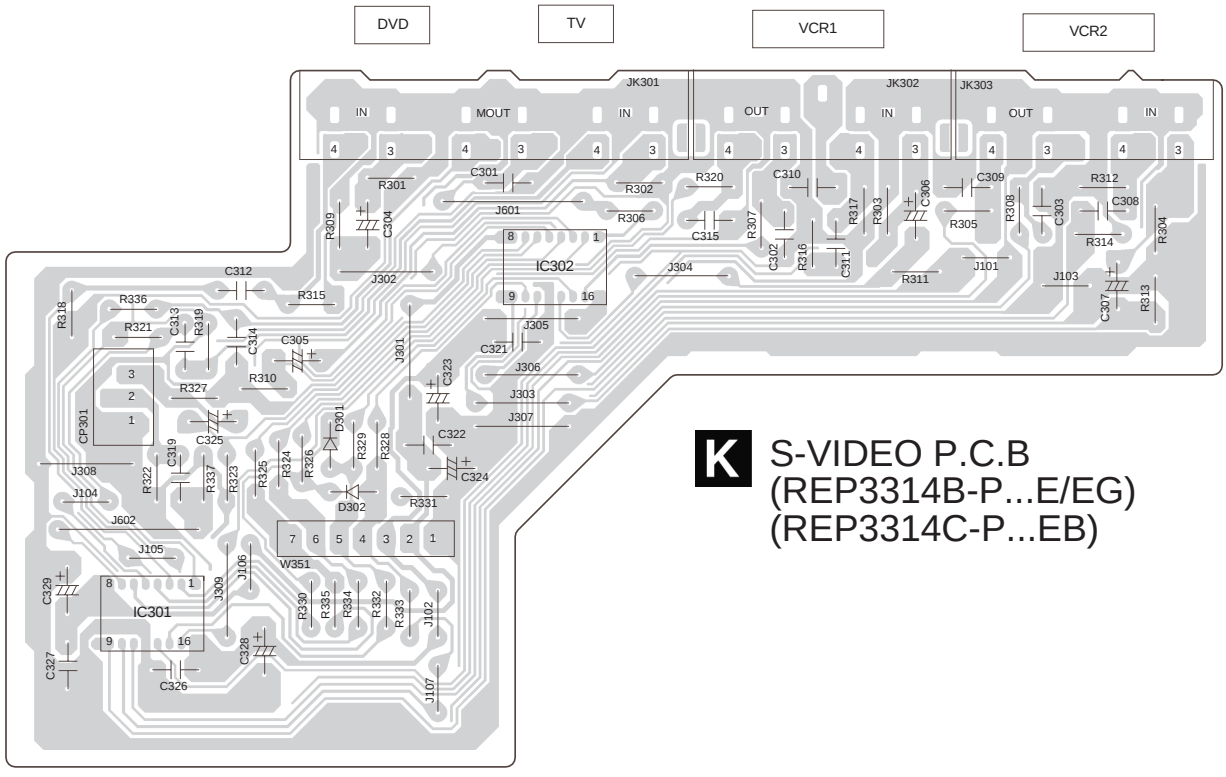
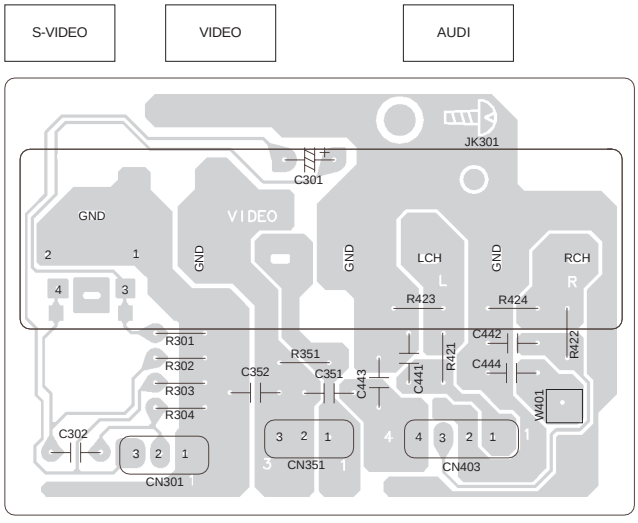
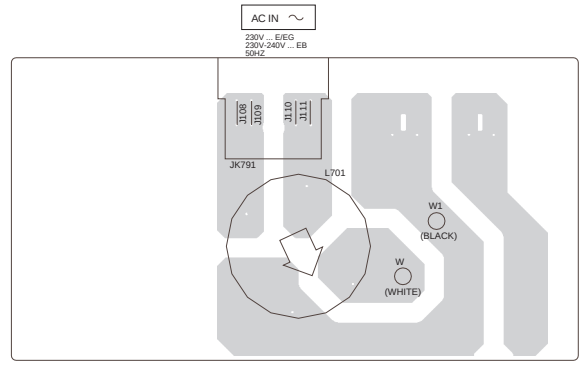


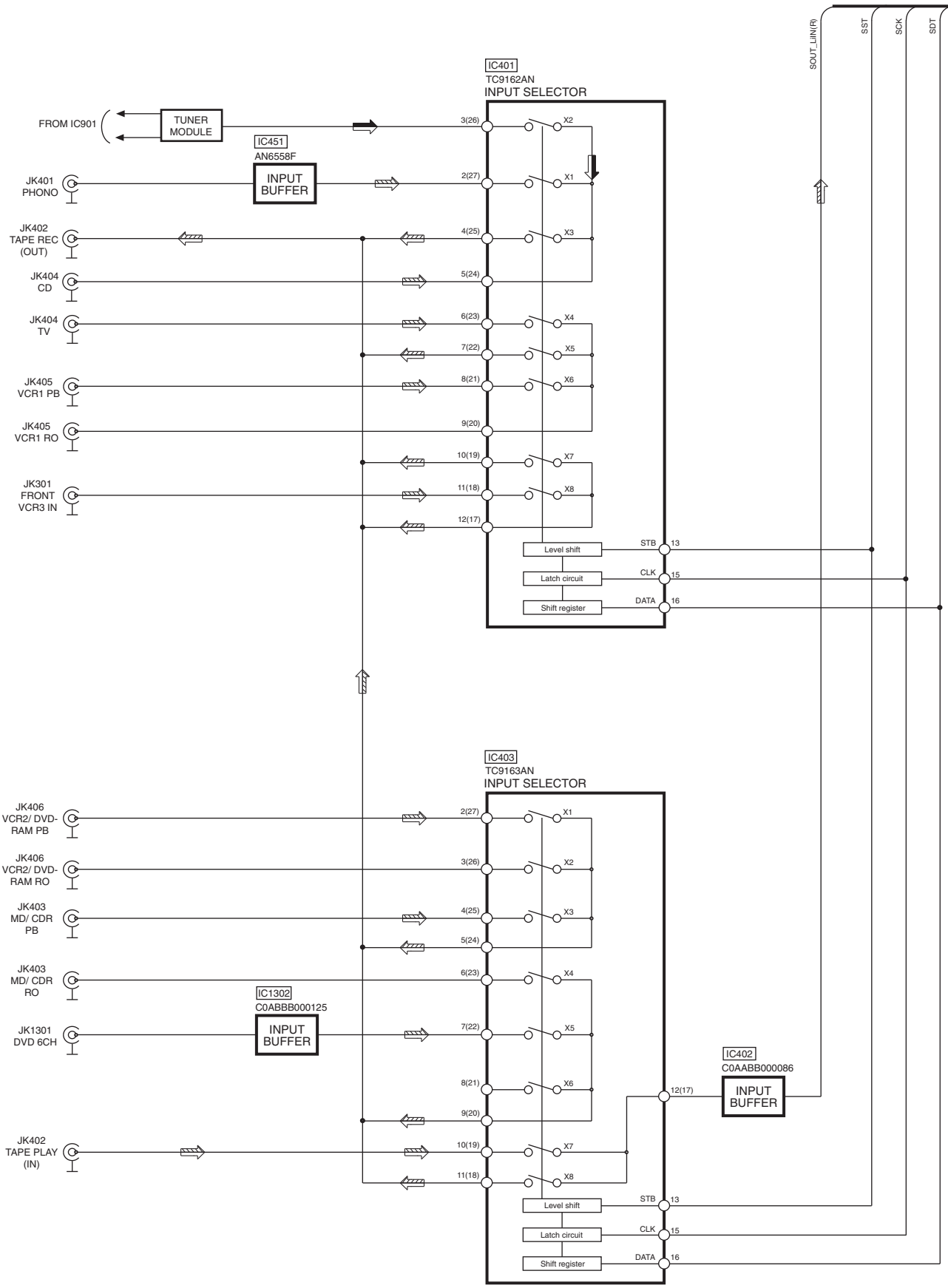
K S-VIDEO P.C.B
(REP3314B-P...E/EG)
(REP3314C-P...EB)

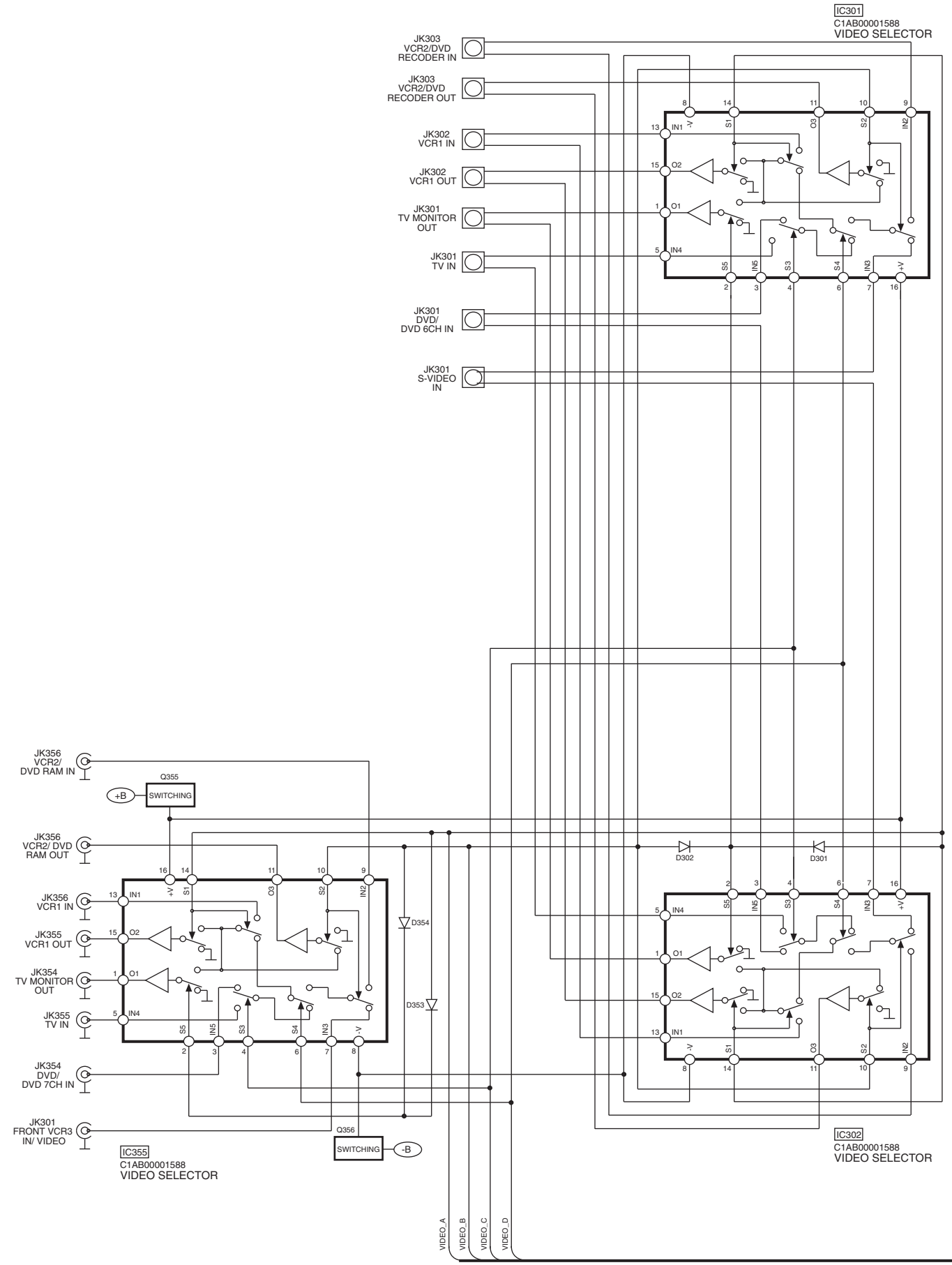


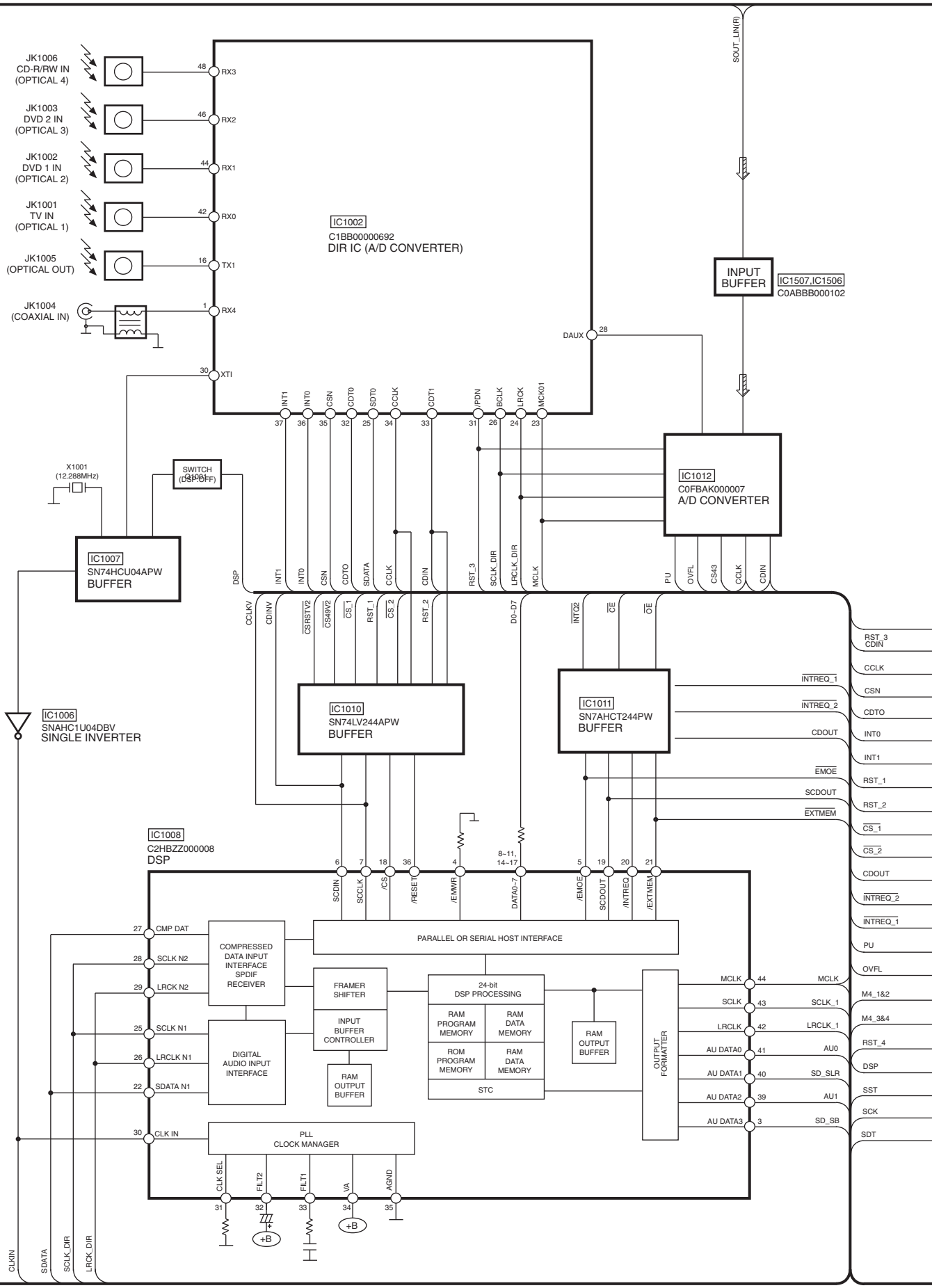
L VCR P.C.B (REP3312B-S)

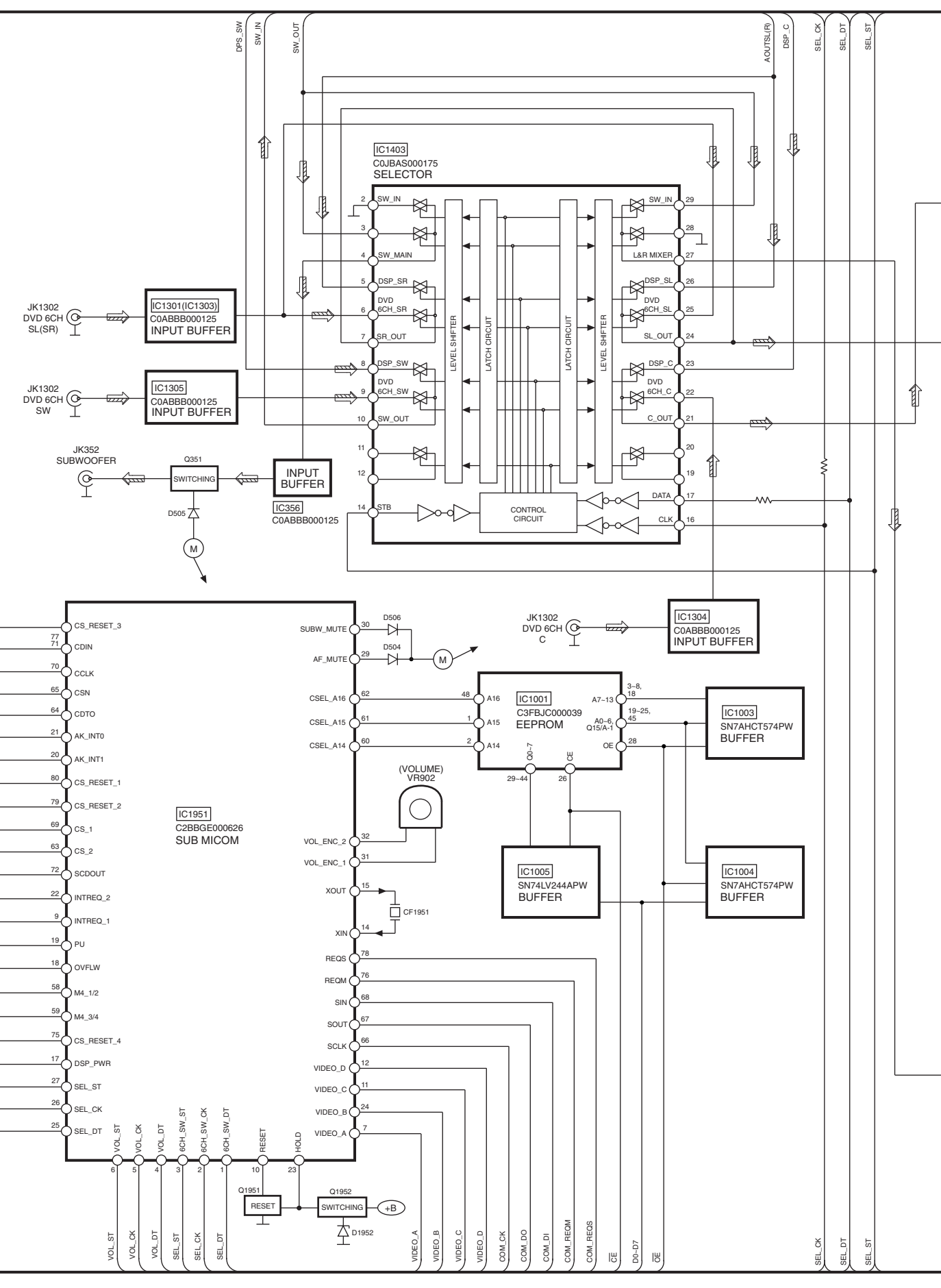
J AC IN/OUT P.C.B
(REP3314B-P...E/EG)
(REP3314C-P...EB)

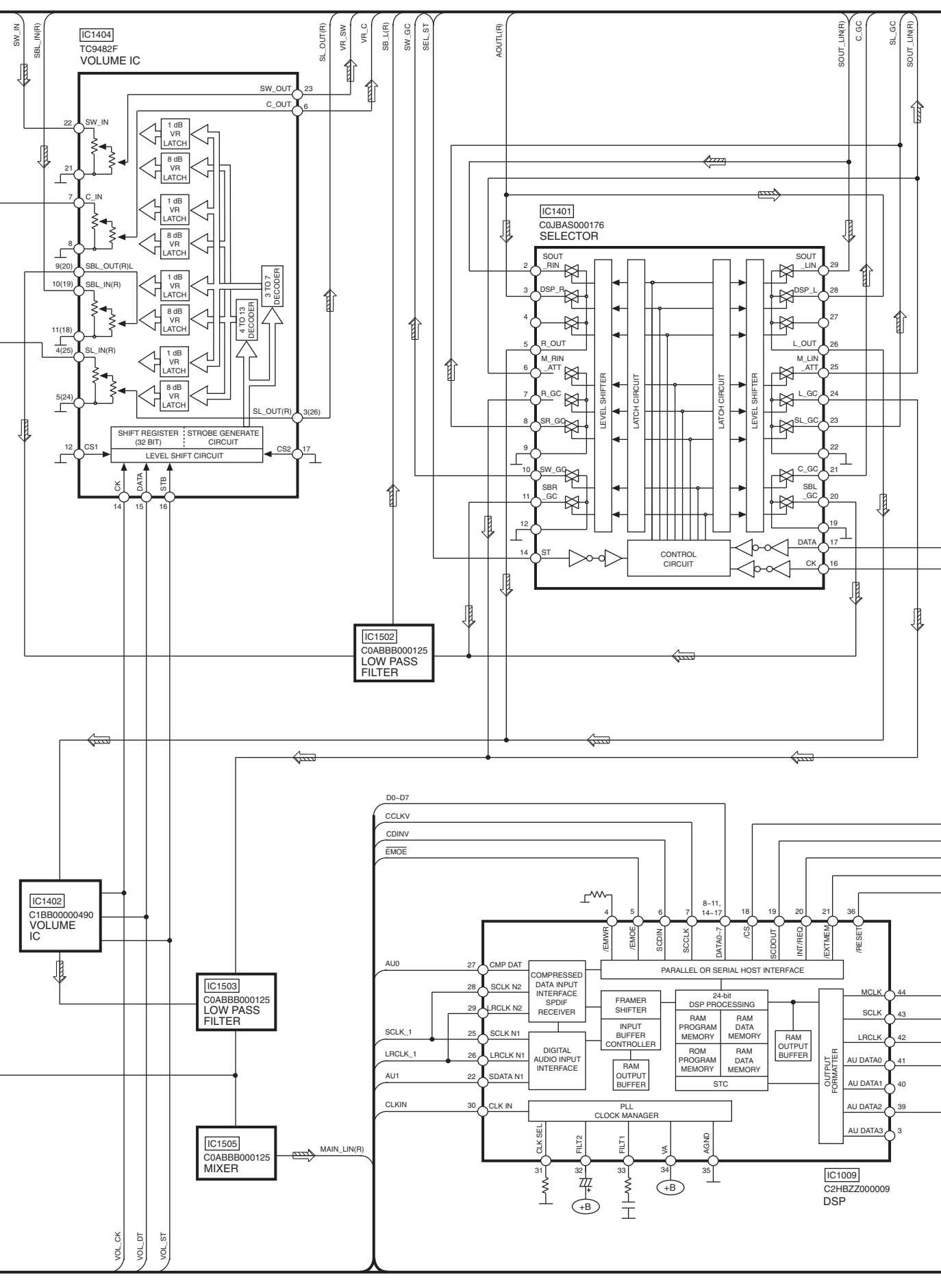


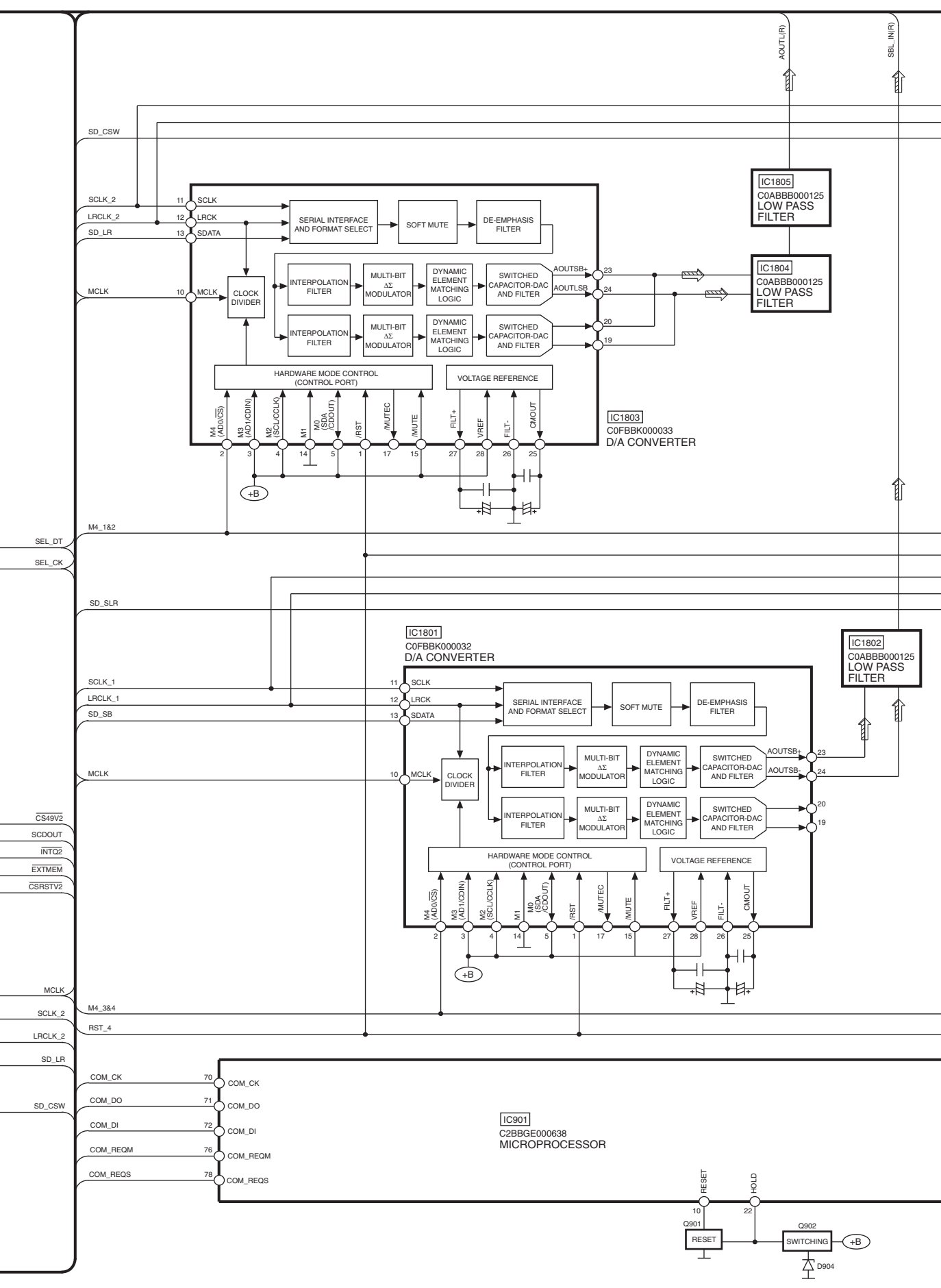

SOUT_LIN(R)
SST
SCK
SDT
IC401
TC9162AN
INPUT SELECTOR
FROM IC901
TUNER MODULE
IC451
AN6558F
INPUT BUFFER
JK401 PHONO
JK402 TAPE REC (OUT)
JK404 CD
JK404 TV
JK405 VCR1 PB
JK405 VCR1 RO
JK301 FRONT VCR3 IN
3(26)
2(27)
4(25)
5(24)
6(23)
7(22)
8(21)
9(20)
10(19)
11(18)
12(17)
X1
X2
X3
X4
X5
X6
X7
X8
Level shift
Latch circuit
Shift register
STB
CLK
DATA
13
15
16
IC403
TC9163AN
INPUT SELECTOR
JK406 VCR2/ DVD-RAM PB
JK406 VCR2/ DVD-RAM RO
JK403 MD/ CDR PB
JK403 MD/ CDR RO
JK1301 DVD 6CH
JK402 TAPE PLAY (IN)
IC1302
C0ABBB000125
INPUT BUFFER
IC402
C0AABB000086
INPUT BUFFER

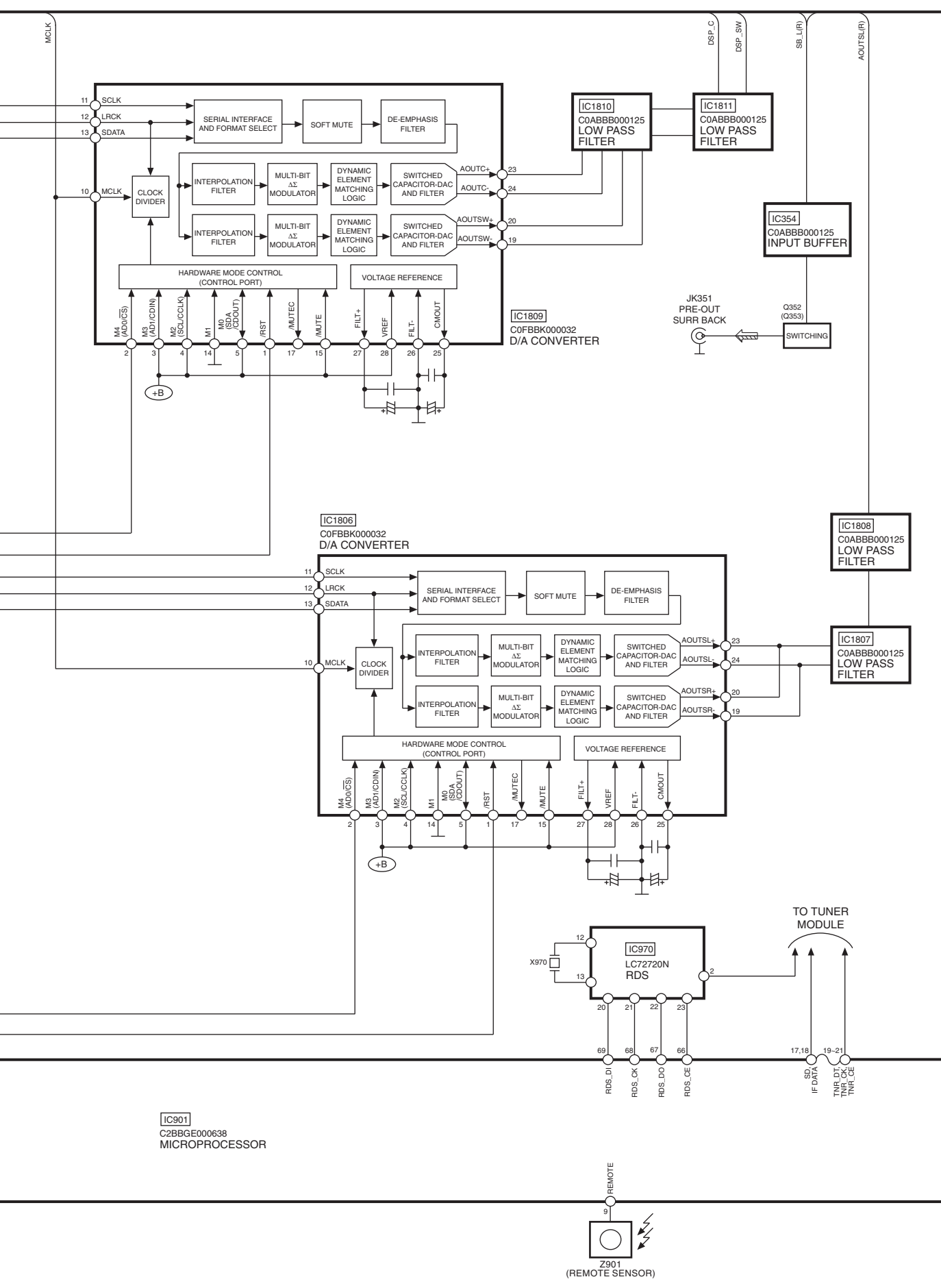

IC301
C1AB00001588
VIDEO SELECTOR
JK303
VCR2/DVD
RECODER IN
JK303
VCR2/DVD
RECODER OUT
JK302
VCR1 IN
JK302
VCR1 OUT
JK301
TV MONITOR
OUT
JK301
TV IN
JK301
DVD/
DVD 6CH IN
JK301
S-VIDEO
IN
-V
S1
O3
S2
IN2
IN1
O2
O1
IN4
S5
IN5
S3
S4
IN3
+V
JK356
VCR2/
DVD RAM IN
Q355
+B
SWITCHING
JK356
VCR2/ DVD
RAM OUT
JK356
VCR1 IN
JK355
VCR1 OUT
JK354
TV MONITOR
OUT
JK355
TV IN
JK354
DVD/
DVD 7CH IN
JK301
FRONT VCR3
IN/ VIDEO
D354
D353
D302
D301
Q356
SWITCHING
-B
IC355
C1AB00001588
VIDEO SELECTOR
IC302
C1AB00001588
VIDEO SELECTOR
VIDEO_A
VIDEO_B
VIDEO_C
VIDEO_D

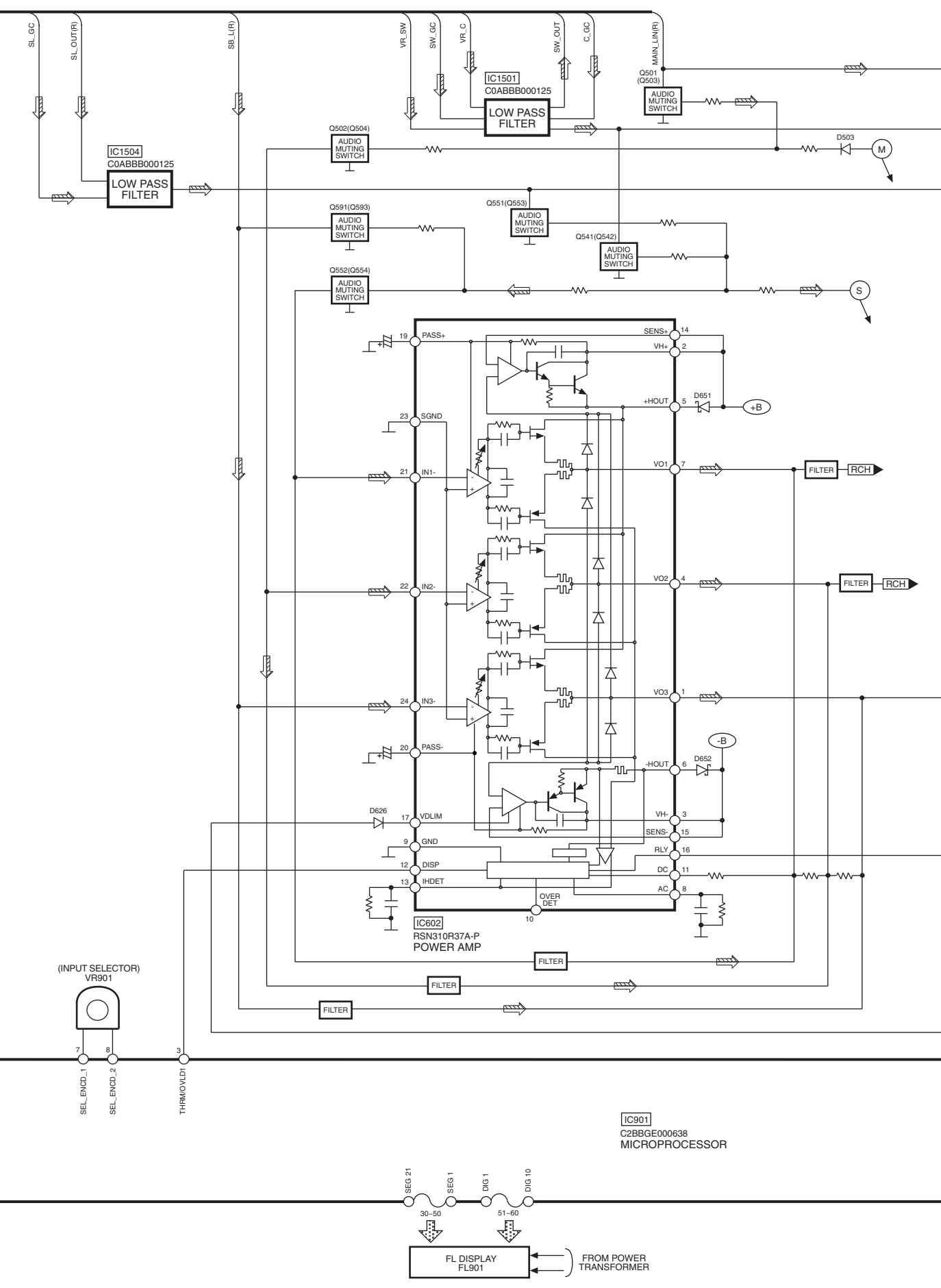

JK1006
CD-R/RW IN
(OPTICAL 4)
JK1003
DVD 2 IN
(OPTICAL 3)
JK1002
DVD 1 IN
(OPTICAL 2)
JK1001
TV IN
(OPTICAL 1)
JK1005
(OPTICAL OUT)
JK1004
(COAXIAL IN)
48 RX3
46 RX2
44 RX1
42 RX0
16 TX1
1 RX4
30 XTI
IC1002
C1BB00000692
DIR IC (A/D CONVERTER)
DAUX 28
SOUT_LIN(R)
INPUT BUFFER
IC1507,IC1506
C0ABBB000102
INT1 37
INT0 36
CSN 35
CDTO 32
SDTO 25
CCLK 34
CDT1 33
/PDN 31
BCLK 26
LRCK 24
MCK01 23
X1001
(12.288MHz)
SWITCH
(DSP OFF)
IC1007
SN74HCU04APW
BUFFER
IC1012
C0FBAK000007
A/D CONVERTER
DSP
INT1
INT0
CSN
CDTO
SDATA
CCLK
CDIN
RST_3
SCLK_DIR
LRCLK_DIR
MCLK
PU
OVFL
CS43
CCLK
CDIN
CCLKV
CDINV
CSRSTV2
CS49V2
CS_1
RST_1
CS_2
RST_2
D0–D7
INTQ2
CE
OE
IC1010
SN74LV244APW
BUFFER
IC1011
SN7AHCT244PW
BUFFER
IC1006
SNAHC1U04DBV
SINGLE INVERTER
IC1008
C2HBZZ000008
DSP
6 SCDIN
7 SCCLK
18 /CS
36 /RESET
4 /EMWR
8–11, 14–17 DATA0–7
5 /EMOE
19 SCDOUT
20 /INTREQ
21 /EXTMEM
27 CMP DAT
28 SCLK N2
29 LRCK N2
25 SCLK N1
26 LRCLK N1
22 SDATA N1
30 CLK IN
COMPRESSED DATA INPUT INTERFACE SPDIF RECEIVER
DIGITAL AUDIO INPUT INTERFACE
PARALLEL OR SERIAL HOST INTERFACE
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
RAM OUTPUT BUFFER
24-bit DSP PROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
RAM DATA MEMORY
STC
RAM OUTPUT BUFFER
OUTPUT FORMATTER
PLL CLOCK MANAGER
CLK SEL 31
FILT2 32
FILT1 33
VA 34
AGND 35
+B
+B
MCLK 44
SCLK 43
LRCLK 42
AU DATA0 41
AU DATA1 40
AU DATA2 39
AU DATA3 3
MCLK
SCLK_1
LRCLK_1
AU0
SD_SLR
AU1
SD_SB
M4_1&2
M4_3&4
RST_4
DSP
SST
SCK
SDT
RST_3
CDIN
CCLK
INTREQ_1
CSN
INTREQ_2
CDTO
CDOUT
INT0
INT1
EMOE
RST_1
SCDOUT
RST_2
EXTMEM
CS_1
CS_2
CDOUT
INTREQ_2
INTREQ_1
PU
OVFL
CLKIN
SDATA
SCLK_DIR
LRCK_DIR

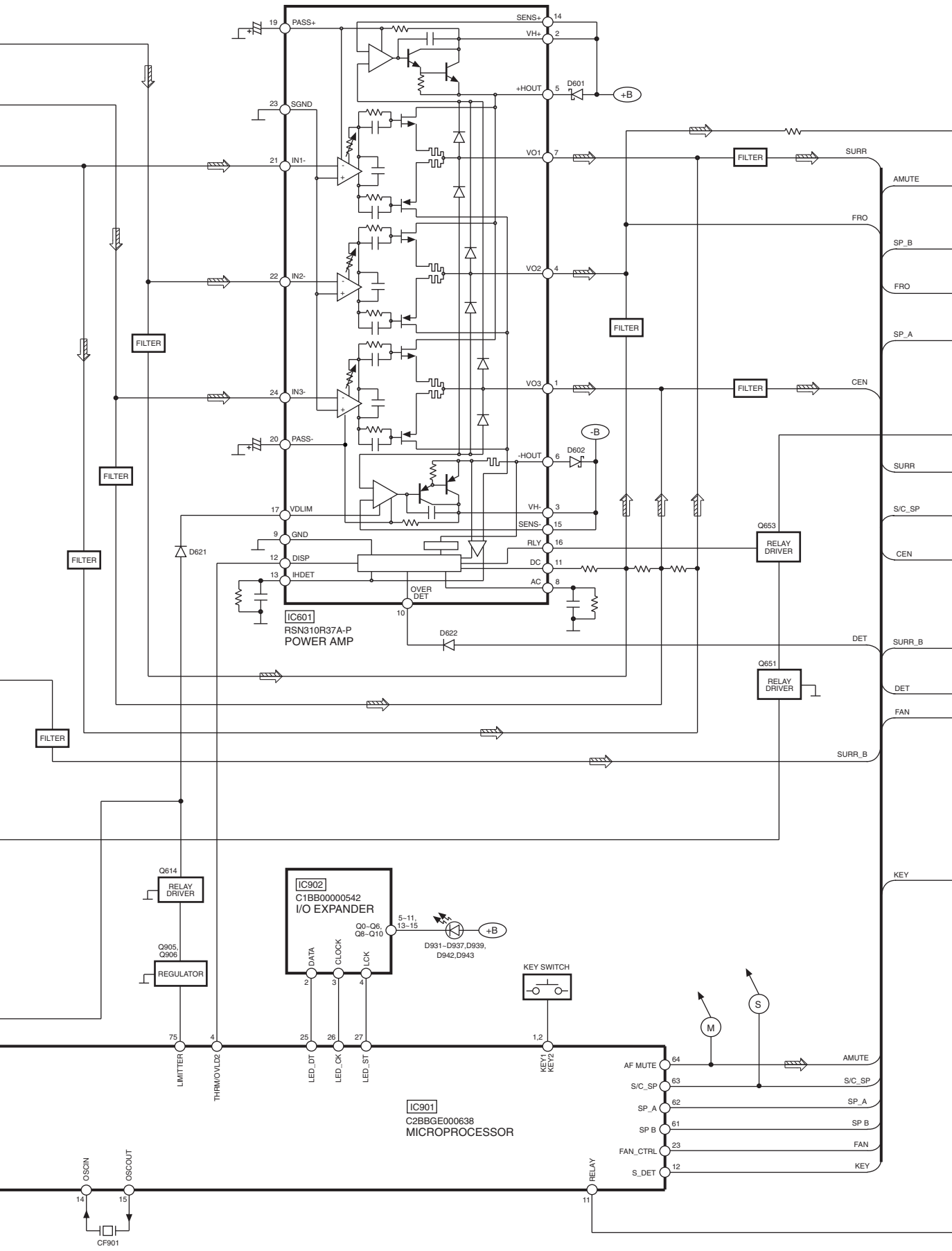

DPS_SW
SW_IN
SW_OUT
AOUTSL(R)
DSP_C
SEL_CK
SEL_DT
SEL_ST
IC1403
C0JBAS000175
SELECTOR
SW_IN
SW_MAIN
DSP_SR
DVD 6CH_SR
SR_OUT
DSP_SW
DVD 6CH_SW
SW_OUT
STB
LEVEL SHIFTER
LATCH CIRCUIT
LATCH CIRCUIT
LEVEL SHIFTER
CONTROL CIRCUIT
L&R MIXER
DSP_SL
DVD 6CH_SL
SL_OUT
DSP_C
DVD 6CH_C
C_OUT
DATA
CLK
JK1302
DVD 6CH
SL(SR)
IC1301(IC1303)
C0ABBB000125
INPUT BUFFER
JK1302
DVD 6CH
SW
IC1305
C0ABBB000125
INPUT BUFFER
JK352
SUBWOOFER
Q351
SWITCHING
D505
M
INPUT BUFFER
IC356
C0ABBB000125
JK1302
DVD 6CH
C
IC1304
C0ABBB000125
INPUT BUFFER
IC1951
C2BBGE000626
SUB MICOM
CS_RESET_3
CDIN
CCLK
CSN
CDTO
AK_INT0
AK_INT1
CS_RESET_1
CS_RESET_2
CS_1
CS_2
SCDOUT
INTREQ_2
INTREQ_1
PU
OVFLW
M4_1/2
M4_3/4
CS_RESET_4
DSP_PWR
SEL_ST
SEL_CK
SEL_DT
SUBW_MUTE
AF_MUTE
D506
D504
M
CSEL_A16
CSEL_A15
CSEL_A14
IC1001
C3FBJC000039
EEPROM
A16
A15
A14
A7~13
A0~6, Q15/A-1
OE
Q0~7
CE
IC1003
SN7AHCT574PW
BUFFER
IC1005
SN74LV244APW
BUFFER
IC1004
SN7AHCT574PW
BUFFER
(VOLUME)
VR902
VOL_ENC_2
VOL_ENC_1
XOUT
XIN
CF1951
REQS
REQM
SIN
SOUT
SCLK
VIDEO_D
VIDEO_C
VIDEO_B
VIDEO_A
RESET
HOLD
Q1951
RESET
Q1952
SWITCHING
+B
D1952
VOL_ST
VOL_CK
VOL_DT
6CH_SW_ST
6CH_SW_CK
6CH_SW_DT
SEL_ST
SEL_CK
SEL_DT
VIDEO_A
VIDEO_B
VIDEO_C
VIDEO_D
COM_CK
COM_DO
COM_DI
COM_REQM
COM_REQS
CE
D0-D7
OE
SEL_CK
SEL_DT
SEL_ST


IC1404
TC9482F
VOLUME IC
SW_IN
SBL_IN(R)
SL_OUT(R)
VR_SW
VR_C
SB_L(R)
SW_GC
SEL_ST
AOUT(L)
SOUT_LIN(R)
C_GC
SL_GC
SW_OUT
C_OUT
SW_IN
C_IN
SBL_OUT(R)L
SBL_IN(R)
SL_IN(R)
1 dB VR LATCH
8 dB VR LATCH
3 TO 7 DECODER
4 TO 13 DECODER
SL_OUT(R)
SHIFT REGISTER (32 BIT)
STROBE GENERATE CIRCUIT
LEVEL SHIFT CIRCUIT
CS1
CS2
CK
DATA
STB
IC1401
C0JBAS000176
SELECTOR
SOUT RIN
DSP_R
R_OUT
M_RIN _ATT
R_GC
SR_GC
SW_GC
SBR GC
ST
LEVEL SHIFTER
LATCH CIRCUIT
CONTROL CIRCUIT
SOUT _LIN
DSP_L
L_OUT
M_LIN _ATT
L_GC
SL_GC
C_GC
SBL _GC
DATA
CK
IC1502
C0ABBB000125
LOW PASS FILTER
IC1402
C1BB00000490
VOLUME IC
IC1503
C0ABBB000125
LOW PASS FILTER
IC1505
C0ABBB000125
MIXER
MAIN_LIN(R)
VOL_CK
VOL_DT
VOL_ST
D0-D7
CCLKV
CDINV
EMOE
/EMWR
/EMOE
SCDIN
SCCLK
DATA0-7
/CS
SCDOUT
INT/REQ
/EXTMEM
/RESET
PARALLEL OR SERIAL HOST INTERFACE
AU0
CMP DAT
SCLK N2
LRCLK N2
SCLK_1
SCLK N1
LRCLK_1
LRCLK N1
AU1
SDATA N1
CLKIN
CLK IN
COMPRESSED DATA INPUT INTERFACE SPDIF RECEIVER
DIGITAL AUDIO INPUT INTERFACE
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
RAM OUTPUT BUFFER
24-bit DSP PROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
STC
RAM OUTPUT BUFFER
OUTPUT FORMATTER
PLL CLOCK MANAGER
CLK SEL
FILT2
FILT1
VA
AGND
+B
MCLK
SCLK
LRCLK
AU DATA0
AU DATA1
AU DATA2
AU DATA3
IC1009
C2HBZZ000009
DSP


AOUT(L/R)
SBL_IN(R)
SD_CSW
IC1805
C0ABBB000125
LOW PASS
FILTER
IC1804
C0ABBB000125
LOW PASS
FILTER
SCLK_2
LRCLK_2
SD_LR
MCLK
SCLK
LRCK
SDATA
SERIAL INTERFACE AND FORMAT SELECT
SOFT MUTE
DE-EMPHASIS FILTER
CLOCK DIVIDER
INTERPOLATION FILTER
MULTI-BIT ΔΣ MODULATOR
DYNAMIC ELEMENT MATCHING LOGIC
SWITCHED CAPACITOR-DAC AND FILTER
AOUTSB+
AOUTLSB
HARDWARE MODE CONTROL (CONTROL PORT)
VOLTAGE REFERENCE
M4 (AD0/CS)
M3 (AD1/CDIN)
M2 (SCL/CCLK)
M1
M0 (SDA /CDOUT)
/RST
/MUTEC
/MUTE
FILT+
VREF
FILT-
CMOUT
IC1803
C0FBBK000033
D/A CONVERTER
+B
M4_1&2
SEL_DT
SEL_CK
SD_SLR
IC1801
C0FBBK000032
D/A CONVERTER
IC1802
C0ABBB000125
LOW PASS
FILTER
SCLK_1
LRCLK_1
SD_SB
CS49V2
SCDOUT
INTQ2
EXTMEM
CSRSTV2
MCLK
M4_3&4
SCLK_2
RST_4
LRCLK_2
SD_LR
COM_CK
COM_DO
COM_DI
COM_REQM
COM_REQS
SD_CSW
IC901
C2BBGE000638
MICROPROCESSOR
RESET
HOLD
Q901
RESET
Q902
SWITCHING
+B
D904

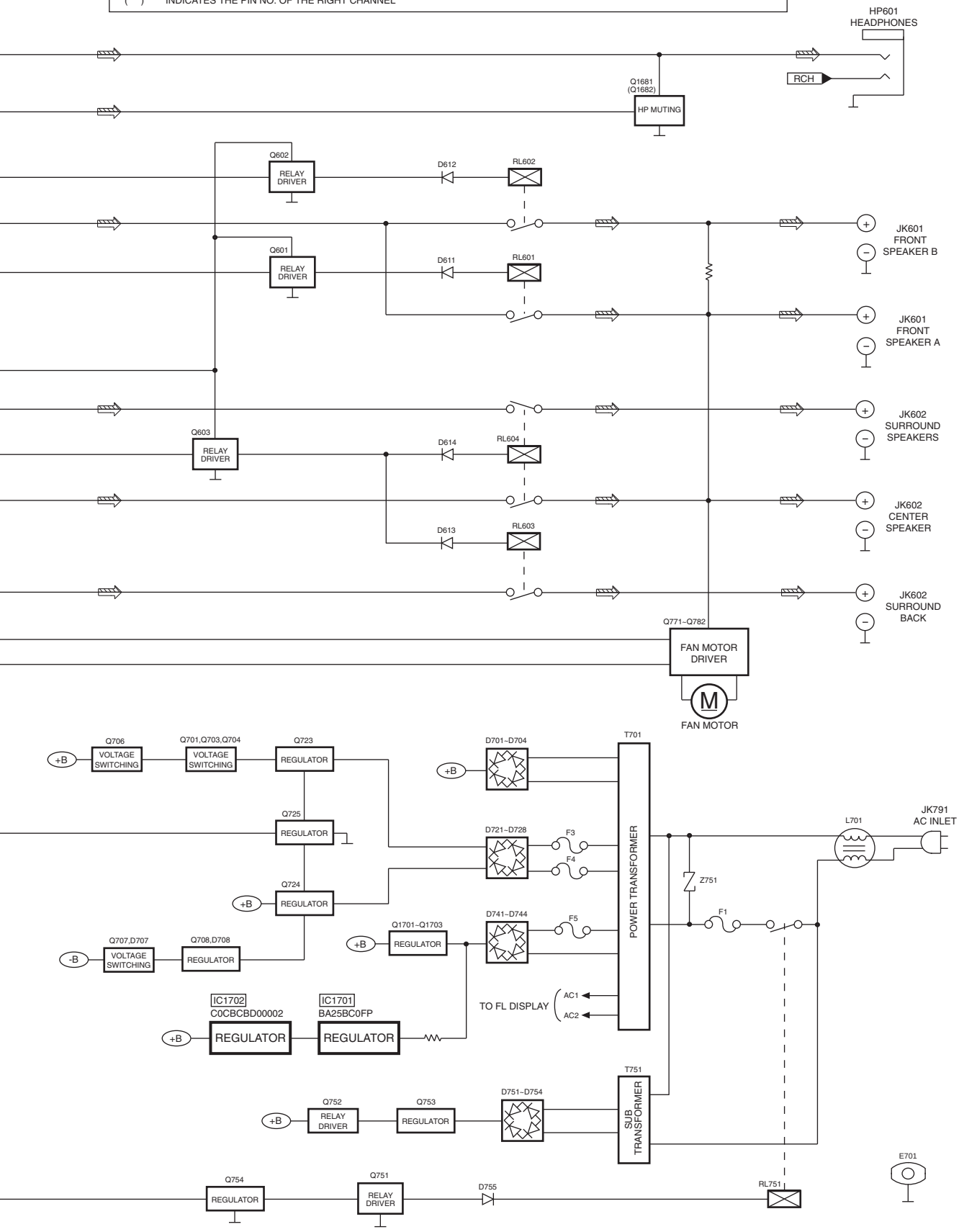

MCLK
DSP_C
DSP_SW
SB_L(R)
AOUTSL(R)
IC1809
C0FBBK000032
D/A CONVERTER
SERIAL INTERFACE AND FORMAT SELECT
SOFT MUTE
DE-EMPHASIS FILTER
CLOCK DIVIDER
INTERPOLATION FILTER
MULTI-BIT ΔΣ MODULATOR
DYNAMIC ELEMENT MATCHING LOGIC
SWITCHED CAPACITOR-DAC AND FILTER
HARDWARE MODE CONTROL (CONTROL PORT)
VOLTAGE REFERENCE
SCLK
LRCK
SDATA
AOUTC+
AOUTC-
AOUTSW+
AOUTSW-
IC1810
C0ABBB000125
LOW PASS FILTER
IC1811
C0ABBB000125
LOW PASS FILTER
IC354
C0ABBB000125
INPUT BUFFER
JK351
PRE-OUT
SURR BACK
Q352
(Q353)
SWITCHING
+B
IC1806
C0FBBK000032
D/A CONVERTER
IC1808
C0ABBB000125
LOW PASS FILTER
IC1807
C0ABBB000125
LOW PASS FILTER
AOUTSL+
AOUTSL-
AOUTSR+
AOUTSR-
TO TUNER MODULE
IC970
LC72720N
RDS
X970
RDS_DI
RDS_CK
RDS_DO
RDS_CE
SD, IF DATA
TNR_DT
TNR_CK
TNR_CE
IC901
C2BBGE000638
MICROPROCESSOR
REMOTE
Z901
(REMOTE SENSOR)

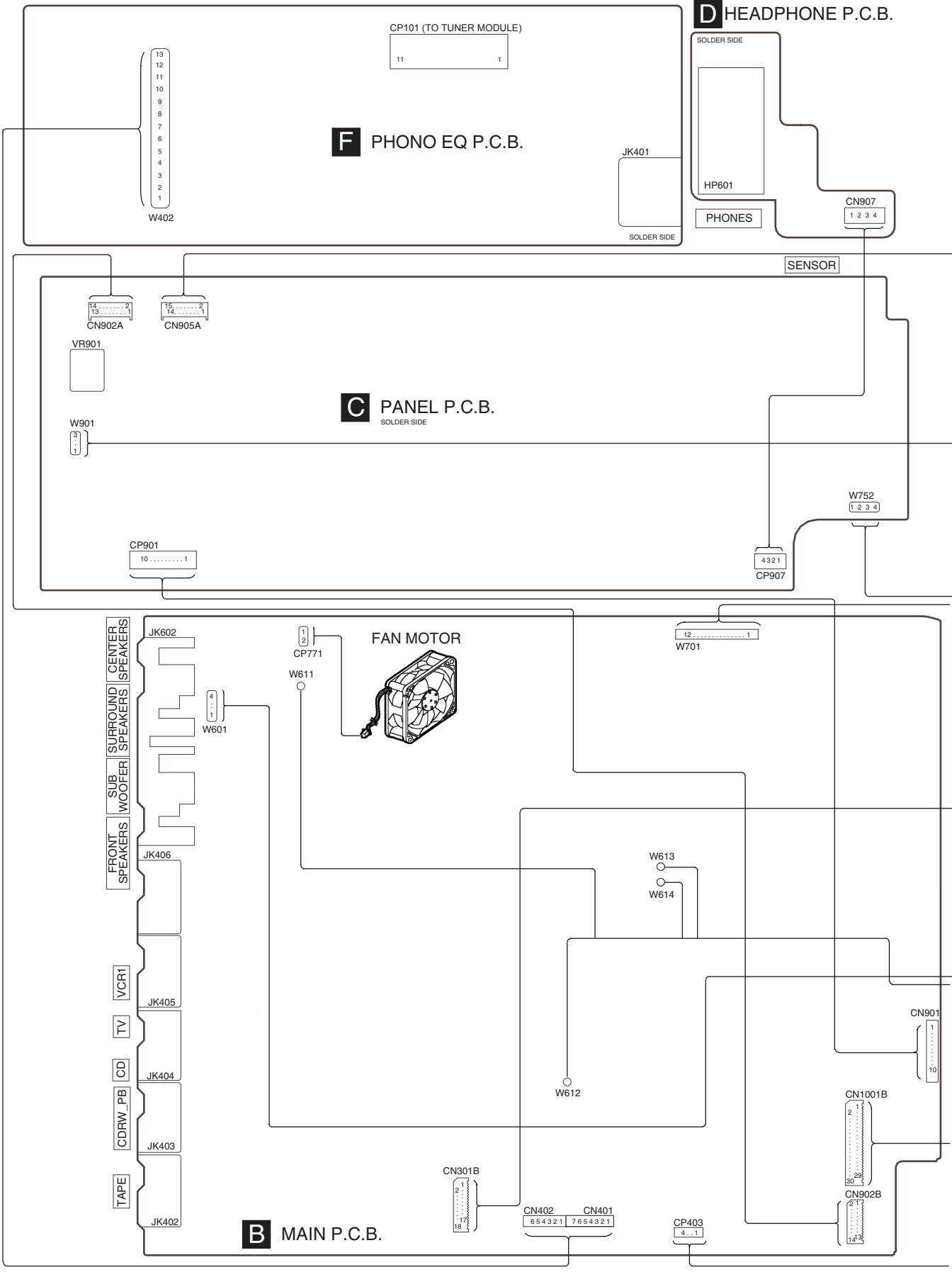

SL_GC
SL_OUT(R)
SB_L(R)
VR_SW
SW_GC
VR_C
SW_OUT
C_GC
MAIN_LIN(R)
IC1501
C0ABBB000125
LOW PASS FILTER
Q501 (Q503)
AUDIO MUTING SWITCH
Q502(Q504)
D503
M
IC1504
C0ABBB000125
LOW PASS FILTER
Q591(Q593)
Q551(Q553)
Q541(Q542)
Q552(Q554)
S
PASS+
SENS+
VH+
+HOUT
D651
+B
SGND
IN1-
VO1
FILTER
RCH
IN2-
VO2
IN3-
VO3
PASS-
-HOUT
D652
-B
D626
VDLIM
VH-
SENS-
GND
RLY
DISP
DC
IHDET
AC
OVER DET
IC602
RSN310R37A-P
POWER AMP
(INPUT SELECTOR)
VR901
SEL_ENCD_1
SEL_ENCD_2
THRM/OVLD1
IC901
C2BBGE000638
MICROPROCESSOR
SEG 21
SEG 1
DIG 1
DIG 10
30–50
51–60
FL DISPLAY
FL901
FROM POWER TRANSFORMER

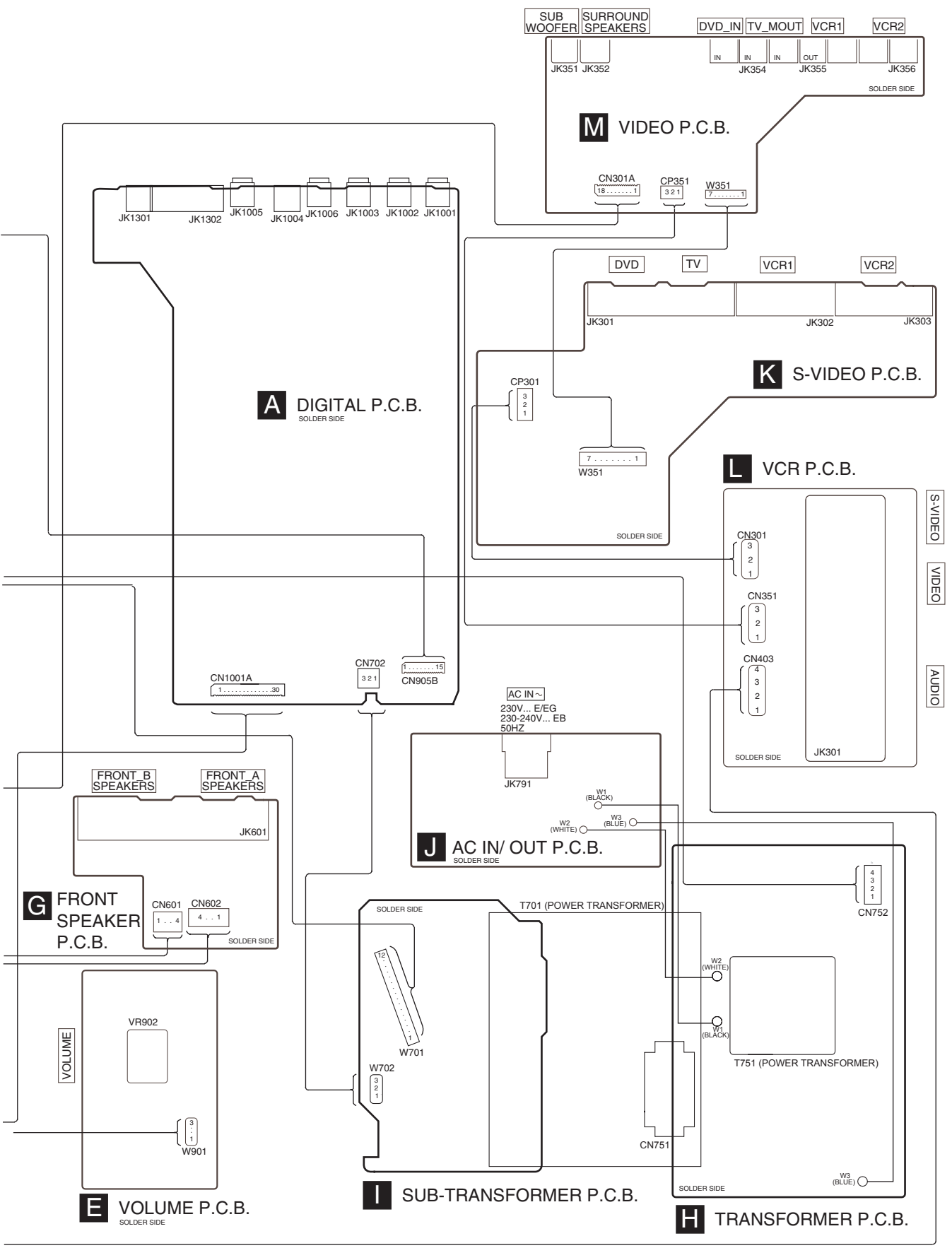

IC601
RSN310R37A-P
POWER AMP
PASS+
SENS+
VH+
+HOUT
D601
+B
SGND
IN1-
VO1
FILTER
SURR
AMUTE
FRO
SP_B
IN2-
VO2
FRO
SP_A
IN3-
VO3
CEN
PASS-
-HOUT
D602
-B
VDLIM
VH-
SENS-
GND
RLY
Q653
RELAY DRIVER
D621
DISP
DC
CEN
IHDET
AC
OVER DET
D622
DET
SURR_B
Q651
RELAY DRIVER
DET
FAN
SURR_B
KEY
Q614
RELAY DRIVER
IC902
C1BB00000542
I/O EXPANDER
Q0~Q6, Q8~Q10
5~11, 13~15
D931~D937,D939, D942,D943
Q905, Q906
REGULATOR
DATA
CLOCK
LCK
KEY SWITCH
M
S
LIMITTER
THRM/OVLD2
LED_DT
LED_CK
LED_ST
KEY1 KEY2
AF MUTE
S/C_SP
SP_A
SP B
FAN_CTRL
S_DET
RELAY
IC901
C2BBGE000638
MICROPROCESSOR
OSCIN
OSCOUT
CF901

SIGNAL LINES

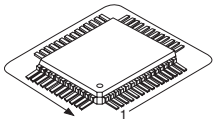
: MAIN SIGNAL LINE
: PLAYBACK SIGNAL LINE
: FM & AM SIGNALS LINE
: CD SIGNAL LINE
: RECORDING SIGNAL LINE
( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL




D HEADPHONE P.C.B.
SOLDER SIDE
HP601
PHONES
CN907
1 2 3 4
CP101 (TO TUNER MODULE)
11 1
F PHONO EQ P.C.B.
13 12 11 10 9 8 7 6 5 4 3 2 1
W402
JK401
SOLDER SIDE
SENSOR
14 2
13 1
CN902A
15 2
14 1
CN905A
VR901
C PANEL P.C.B.
SOLDER SIDE
W901
3 1
W752
1 2 3 4
CP901
10 1
4321
CP907
CENTER SPEAKERS
SURROUND SPEAKERS
SUB WOOFER
FRONT SPEAKERS
JK602
JK406
JK405
JK404
JK403
JK402
VCR1
TV
CD
CDRW_PB
TAPE
4 1
W601
1 2
CP771
W611
FAN MOTOR
12 1
W701
W613
W614
W612
CN901
1 10
CN1001B
1 2 29 30
CN902B
2 1 13 14
CN301B
1 2 17 18
CN402
6 5 4 3 2 1
CN401
7 6 5 4 3 2 1
CP403
4 1
B MAIN P.C.B.


SUB WOOFER
SURROUND SPEAKERS
DVD_IN
TV_MOUT
VCR1
VCR2
JK351 JK352
IN IN IN OUT
JK354 JK355 JK356
SOLDER SIDE
M VIDEO P.C.B.
CN301A
CP351
W351
JK1301 JK1302 JK1005 JK1004 JK1006 JK1003 JK1002 JK1001
DVD TV VCR1 VCR2
JK301 JK302 JK303
K S-VIDEO P.C.B.
CP301
A DIGITAL P.C.B.
SOLDER SIDE
W351
L VCR P.C.B.
SOLDER SIDE
CN301
CN351
CN403
S-VIDEO
VIDEO
AUDIO
JK301
CN1001A
CN702
CN905B
AC IN~
230V... E/EG
230-240V... EB
50HZ
JK791
W1 (BLACK)
W2 (WHITE)
W3 (BLUE)
J AC IN/ OUT P.C.B.
SOLDER SIDE
FRONT_B SPEAKERS
FRONT_A SPEAKERS
JK601
G FRONT SPEAKER P.C.B.
CN601
CN602
SOLDER SIDE
SOLDER SIDE
T701 (POWER TRANSFORMER)
CN752
W2 (WHITE)
W1 (BLACK)
T751 (POWER TRANSFORMER)
W701
W702
CN751
W3 (BLUE)
SOLDER SIDE
VOLUME
VR902
W901
E VOLUME P.C.B.
SOLDER SIDE
I SUB-TRANSFORMER P.C.B.
H TRANSFORMER P.C.B.

C2BBGE000638 (80P)
C2BBGE000626 (80P)
C2HBZZ000008 (44P)
C2HBZZ000009 (44P)
C1BB00000692 (48P)



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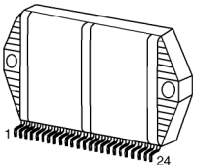

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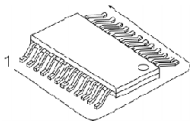
C0FBBK000032 (28P)
C0FBBK000033 (28P)
C0JBAS000175 (30P)
C0JBAS000176 (30P)
C1BB00000542 (18P)
C1AB00001588 (16P)
TC9482F (28P)

C0FBAK000007 (20P)



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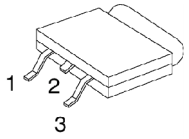

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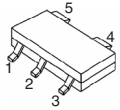
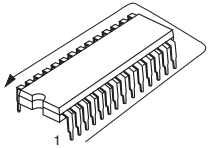
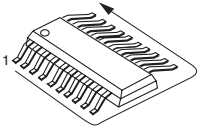


TC9162AN (28P)
TC9163AN (28P)



C0CBCBD00002 (6P)
SN74LV244APW (20P)
SN7AHCT244PW (20P)
SN74HCU04APW (14P)
SN7AHCT574PW (20P)



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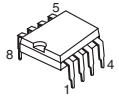

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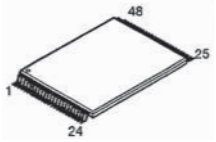

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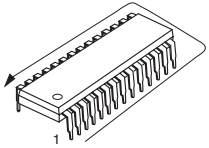

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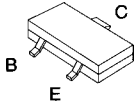

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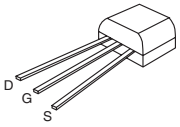

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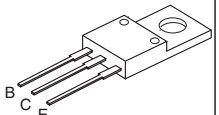

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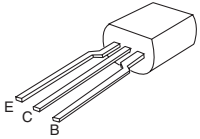

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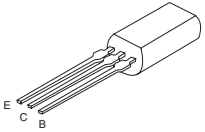

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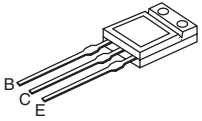

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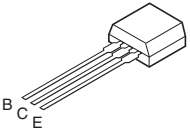
RVTDTA114EST
RVTDTC114EST
RVTDTC143XST



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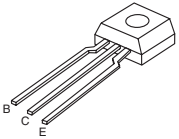

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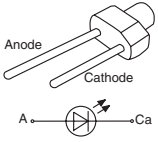

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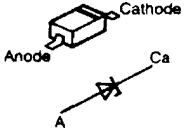

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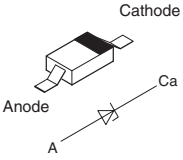

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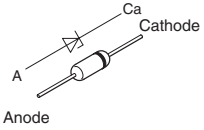
MTZJ3R9ATA
MTZJ7R5BTA
B0BA5R000004



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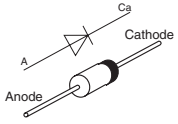

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B0BA6R100003
RB721Q40T77

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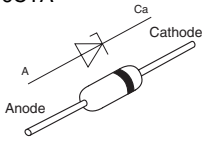


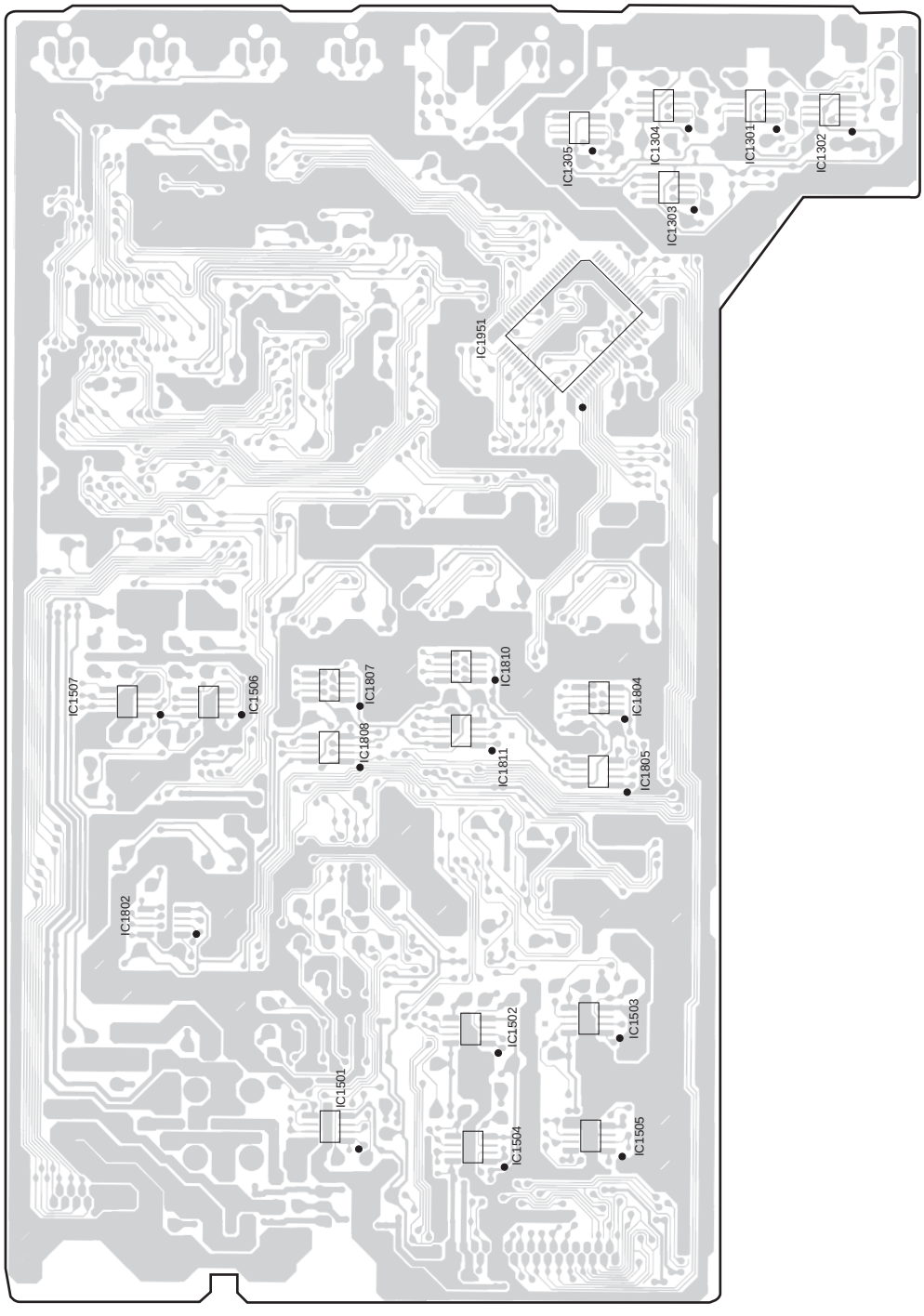
A DIGITAL P.C.B (REP3313A-T)

(SIDE: A)

A B C D E F G

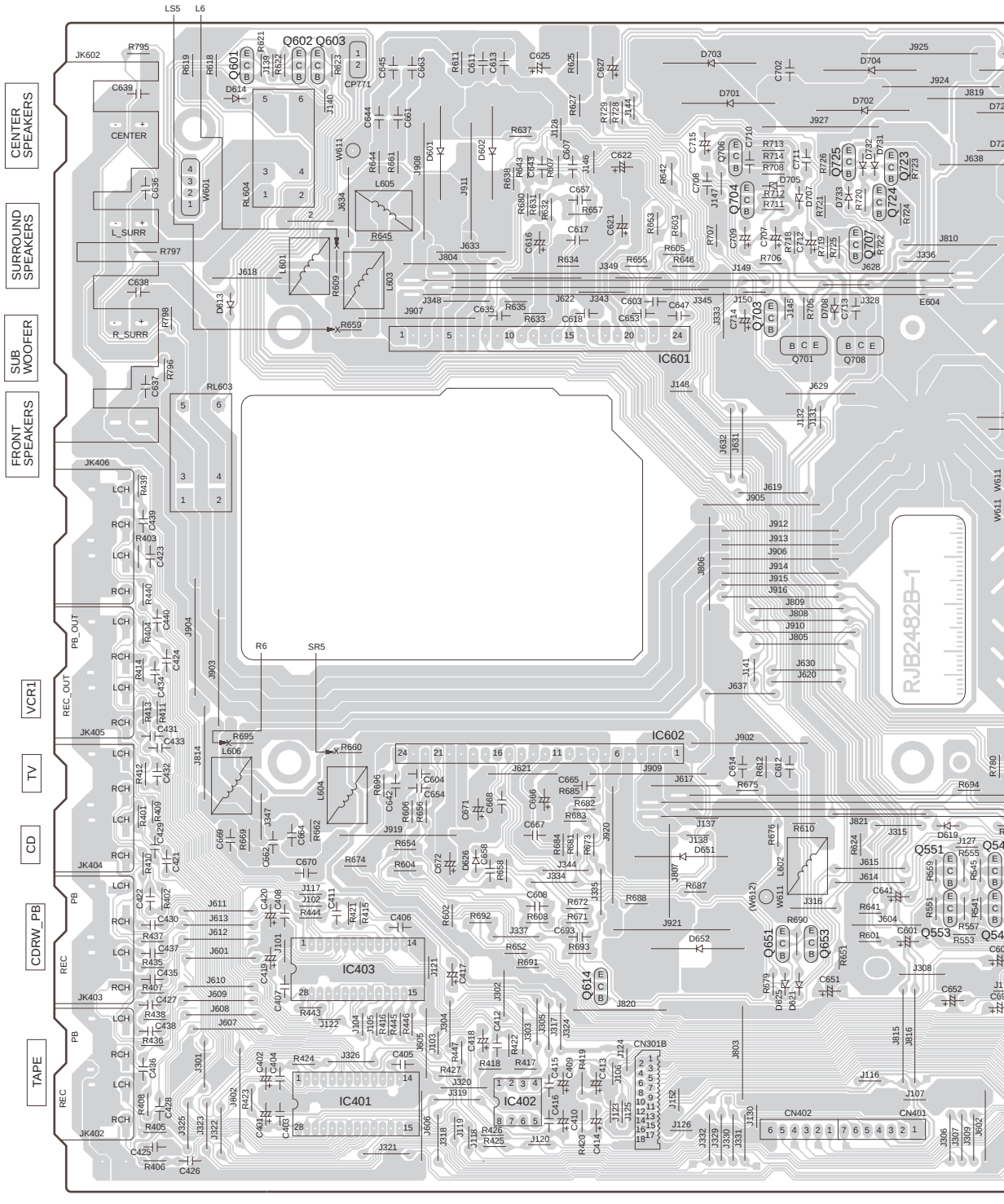
1 2 3 4 5 6 7 8 9

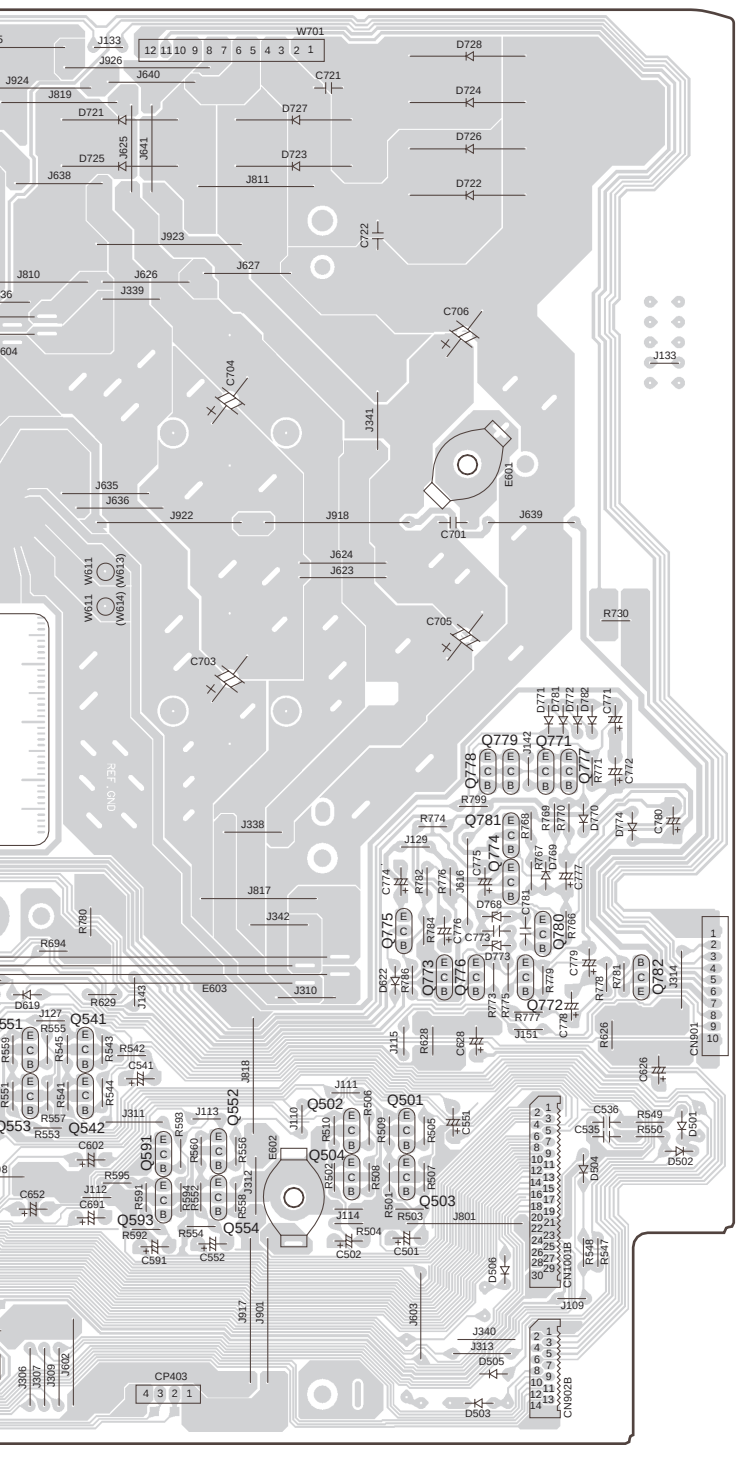
A DIGITAL P.C.B (REP3313A-T)



(SIDE: B)

B MAIN P.C.B. (REP3311B-M)




G
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I
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J819
C721
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D724
D726
D722
D721
D727
D723
D725
J625
J641
J638
J811
C722
J923
J627
J810
J626
J339
C706
C704
J133
J341
E601
J635
J636
J922
J918
J639
C701
J624
J623
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(W614)
(W613)
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R730
C703
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J817
J342
R694
R780
E603
J310
J343
D619
R629
J127
Q541
R555
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R542
C541
J818
J311
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Q502
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C626
C536
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R549
R550
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J109
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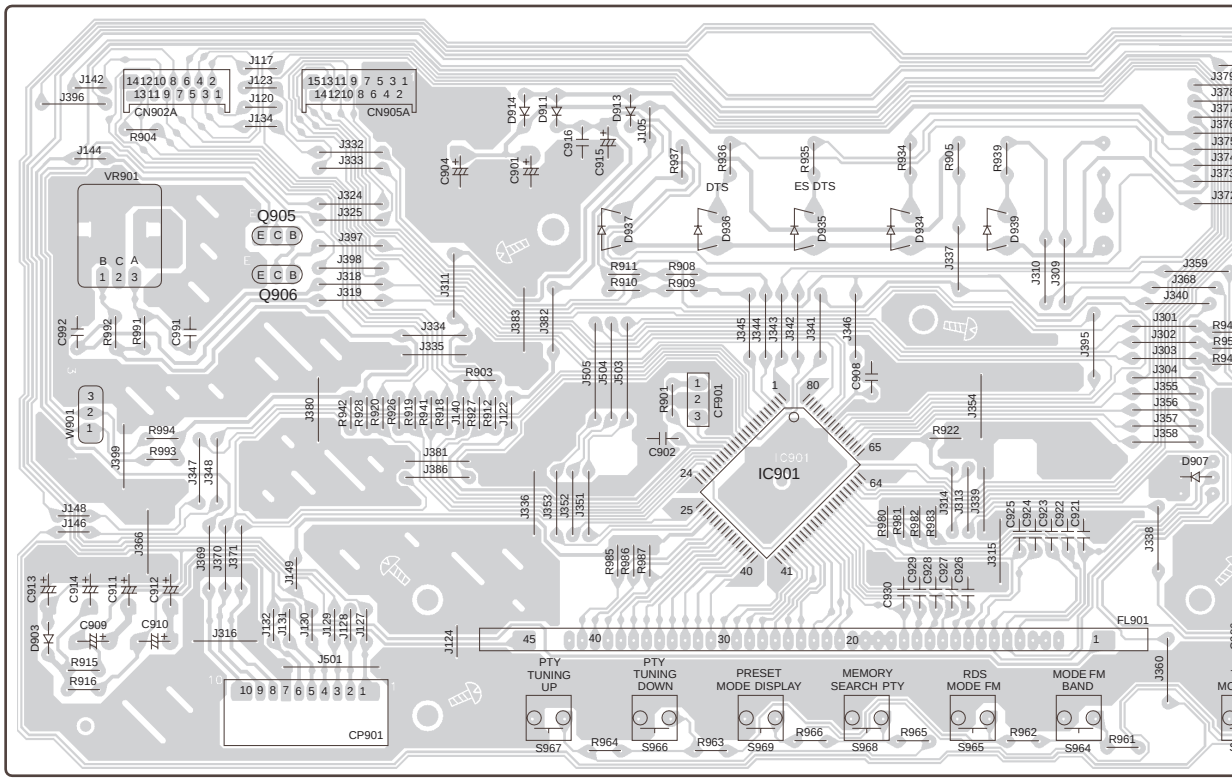
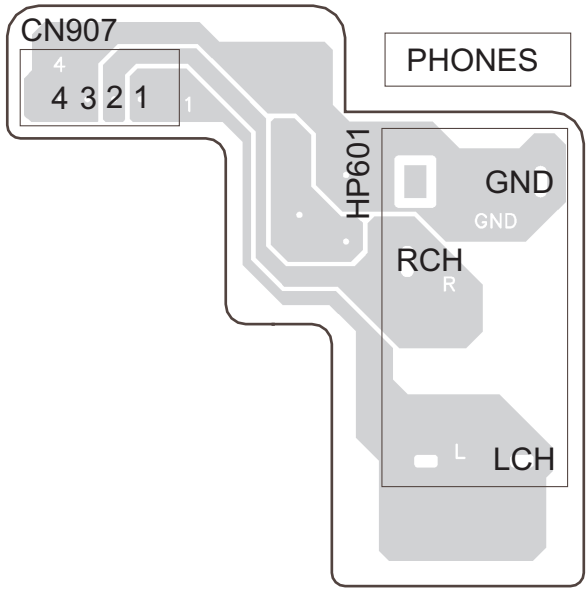
C PANEL P.C.B (REP3312B-S)

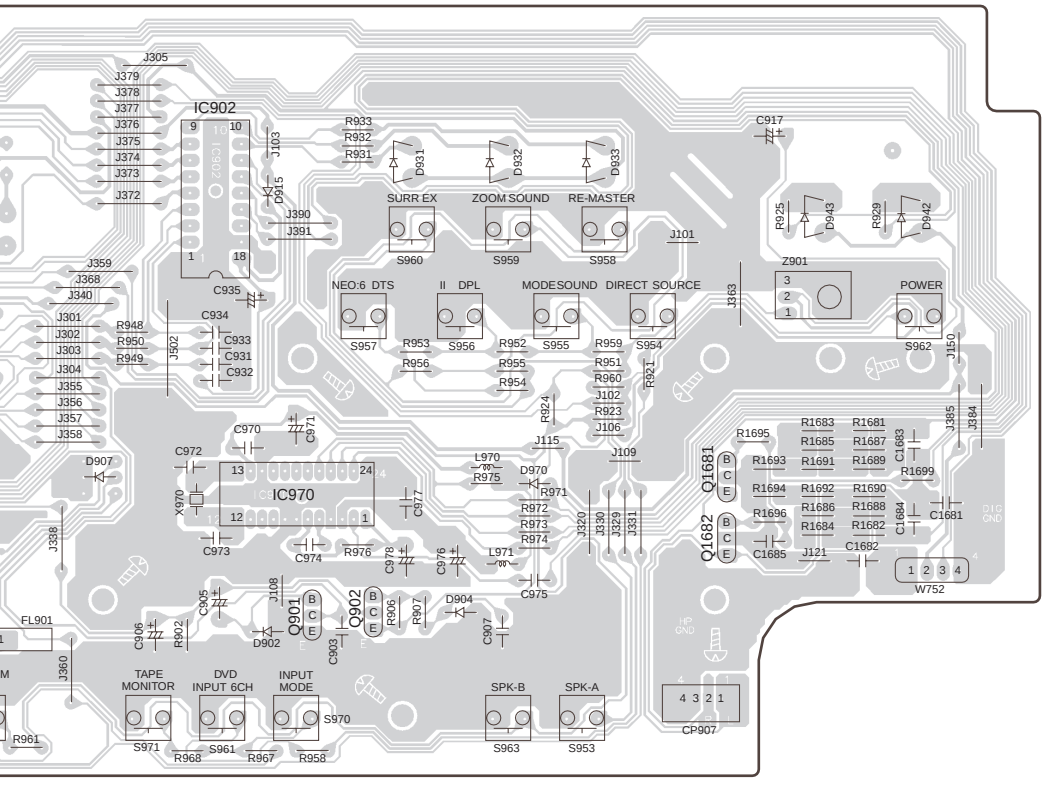


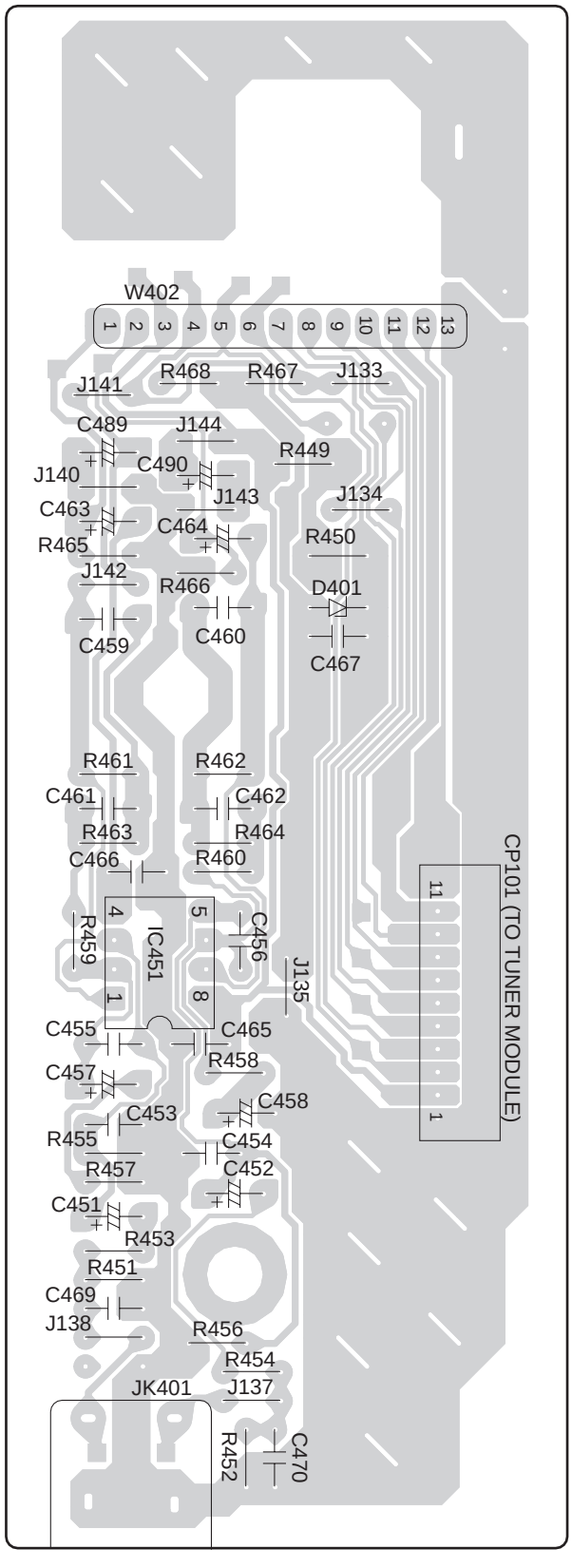
D HEADPHONE P.C.B. (REP3312B-S)



G H I J K L M

SENSOR



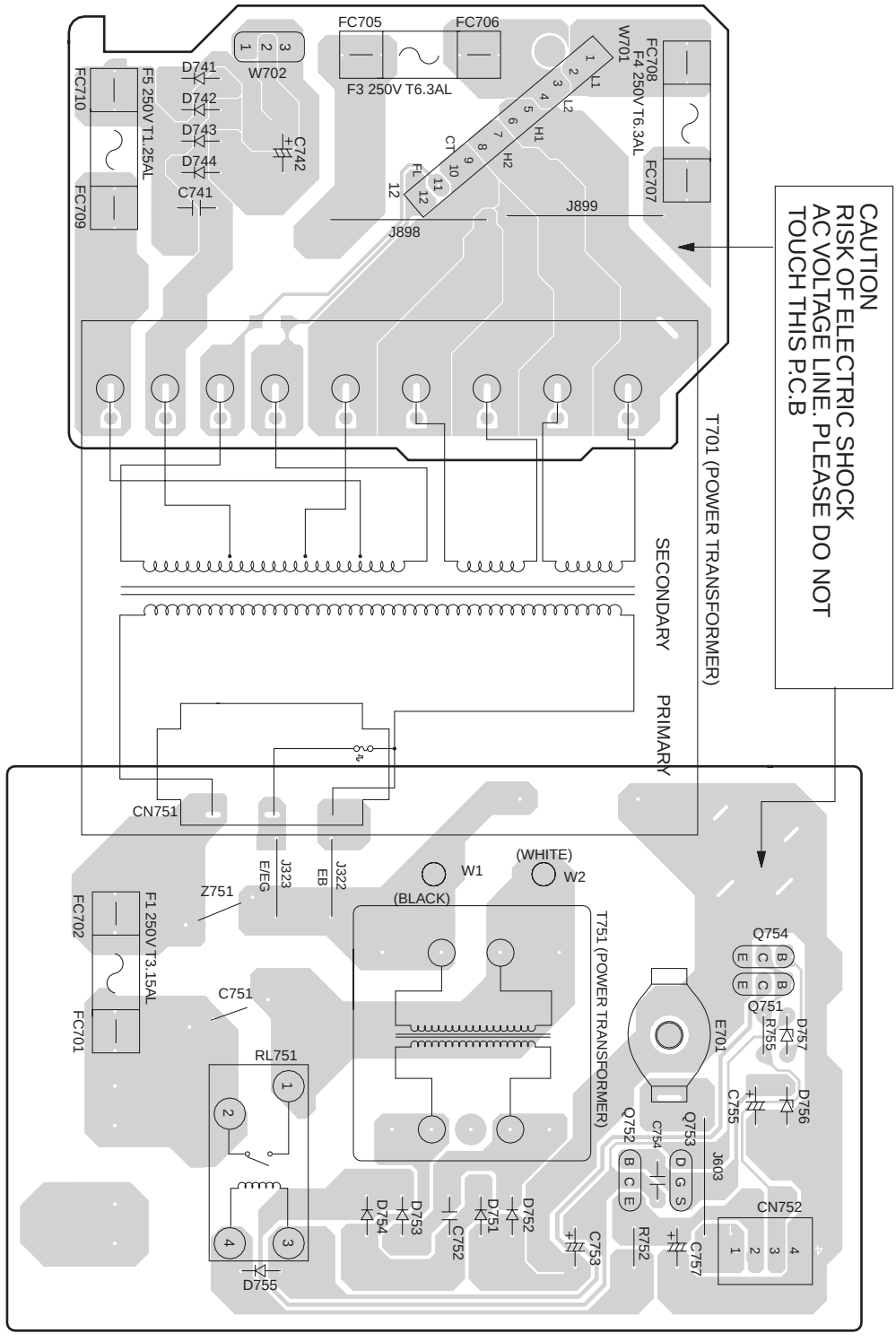


F PHONO EQ P.C.B
(REP3314B-P...E/EG)
(REP3314C-P...EB)

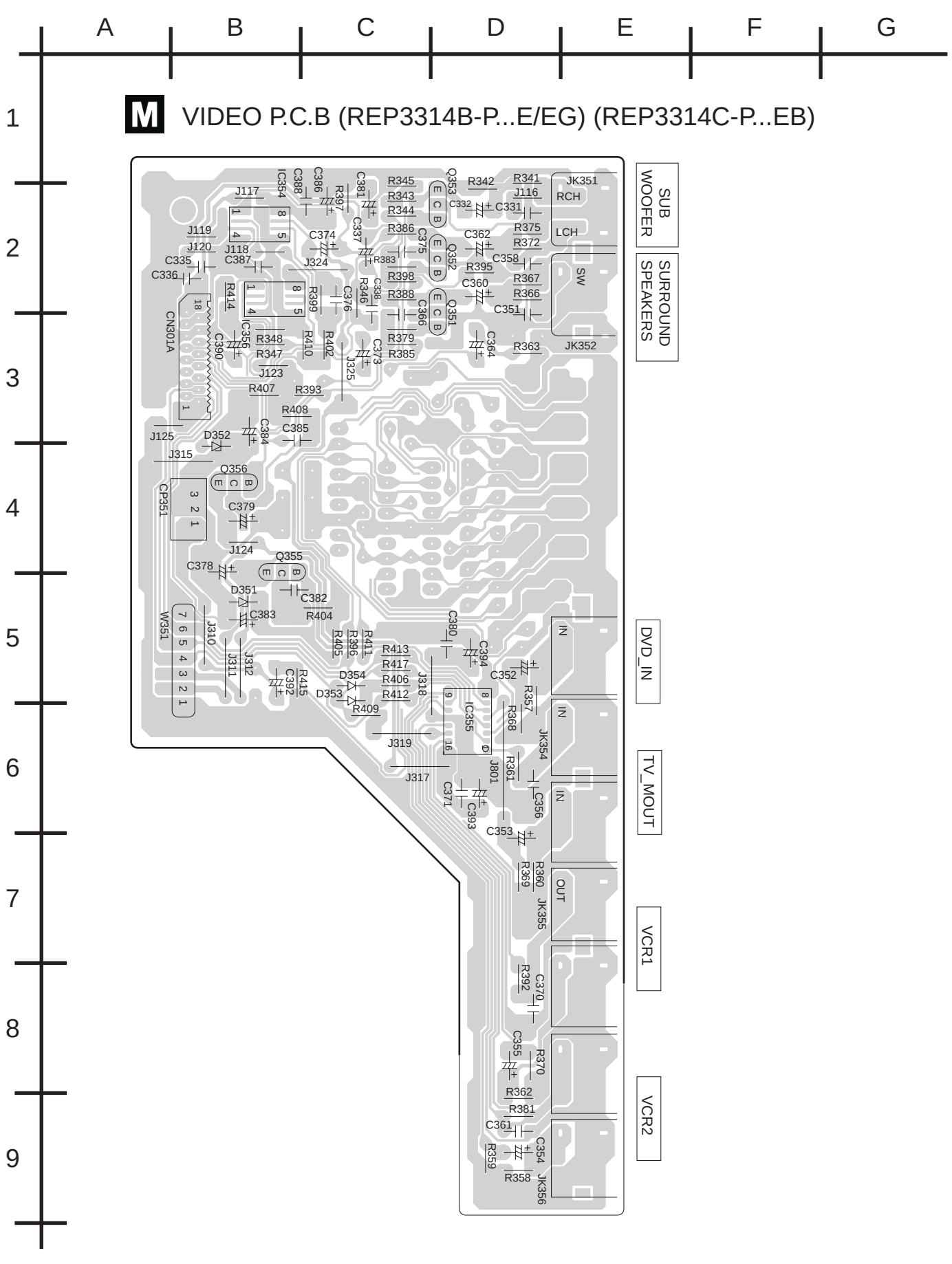
A B C D E F G

1 2 3 4 5 6 7 8 9

I SUB-TRANSFORMER P.C.B (REP3311B-M)



H TRANSFORMER P.C.B (REP3314B-P...E/EG) (REP3314C-P...EB)


A
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M
VIDEO P.C.B (REP3314B-P...E/EG) (REP3314C-P...EB)
SUB WOOFER
SURROUND SPEAKERS
DVD_IN
TV_MOUT
VCR1
VCR2
JK351
RCH
LCH
SW
JK352
JK354
JK355
JK356
IN
OUT
CN301A
CP351
W351
IC354
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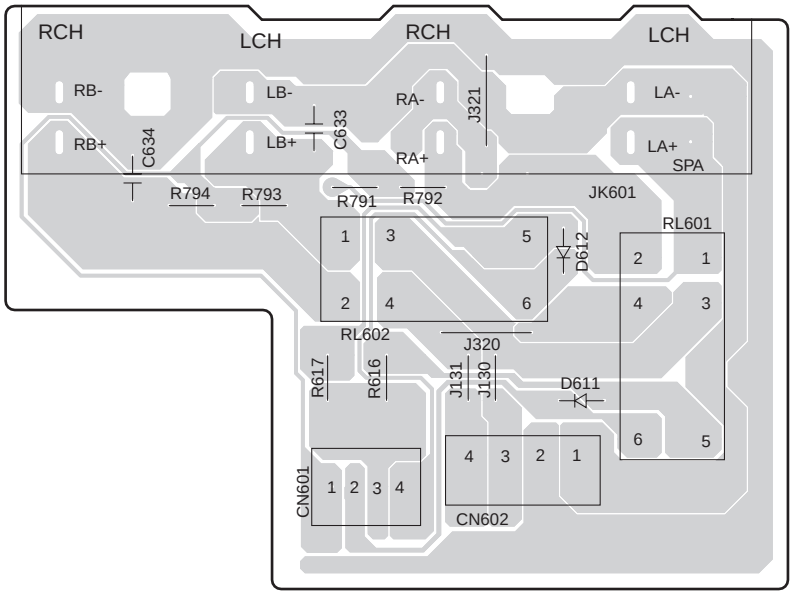
R414
R415
R417

FRONT_B SPEAKERS

FRONT_A SPEAKERS

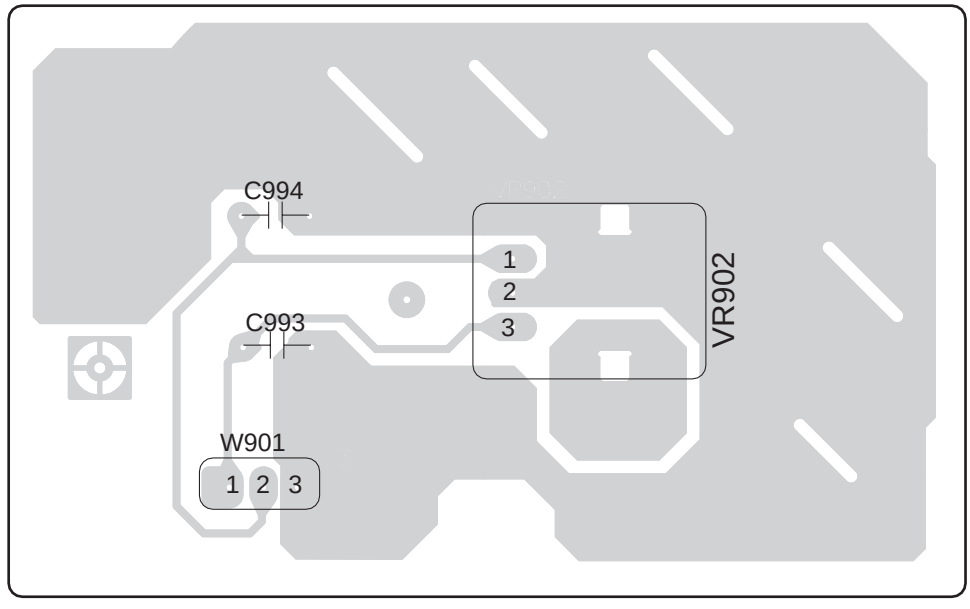
G

FRONT SPEAKER P.C.B
(REP3314B-P...E/EG)
(REP3314C-P...EB)



E VOLUME P.C.B (REP3314B-P...E/EG)
(REP3314C-P...EB)

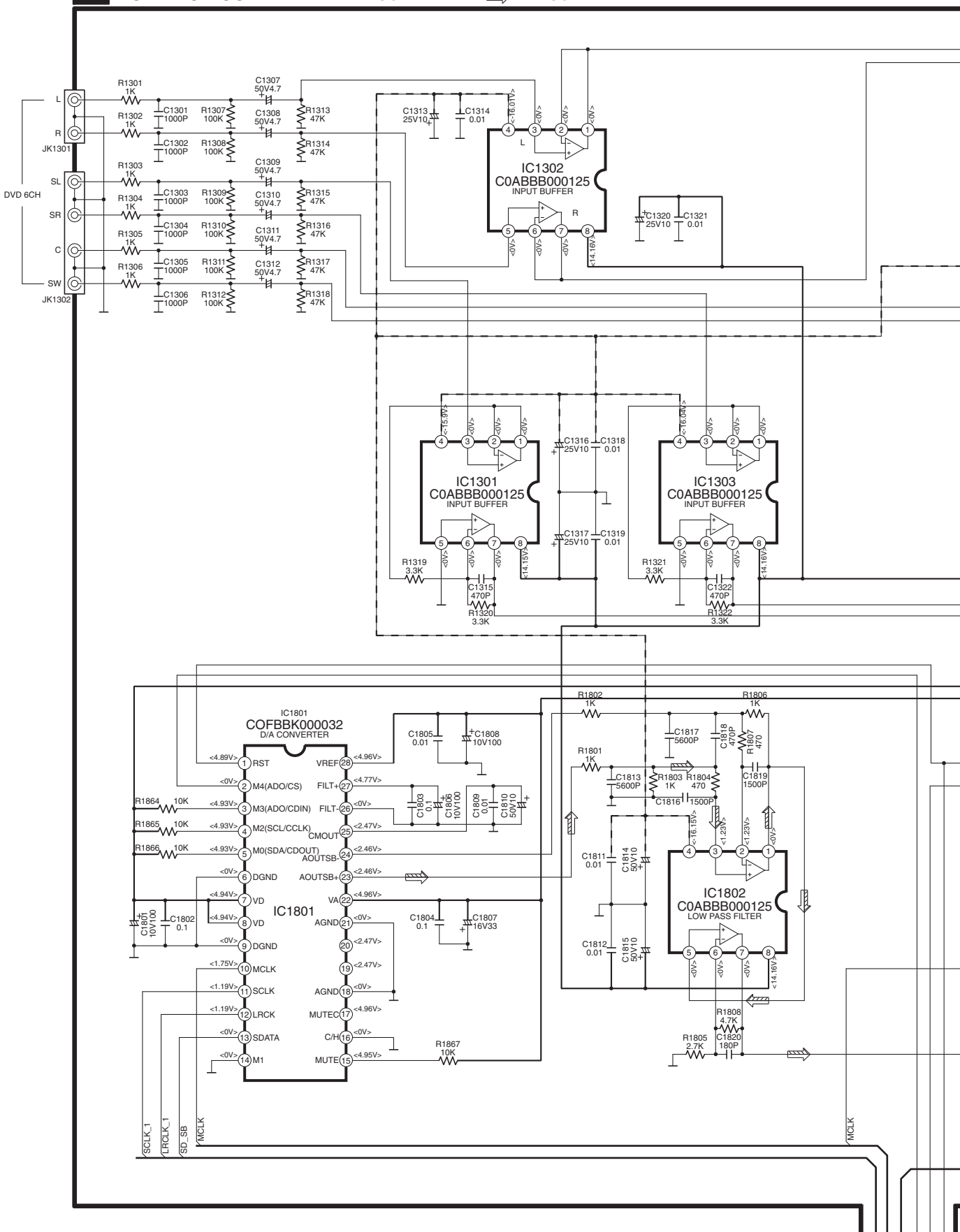
VOLUME



SCHEMATIC DIAGRAM-1

A DIGITAL CIRCUIT

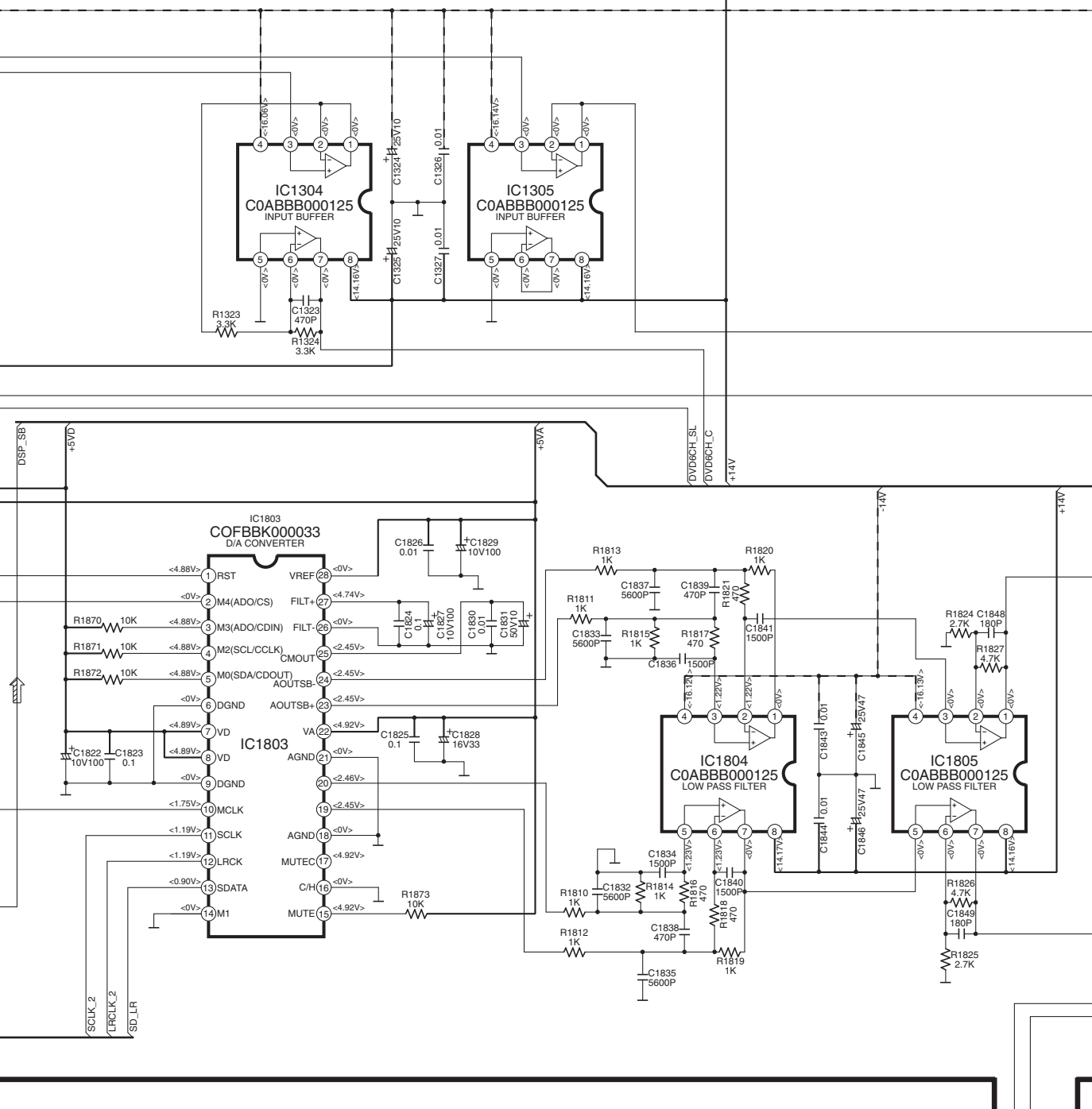
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-2

A DIGITAL CIRCUIT

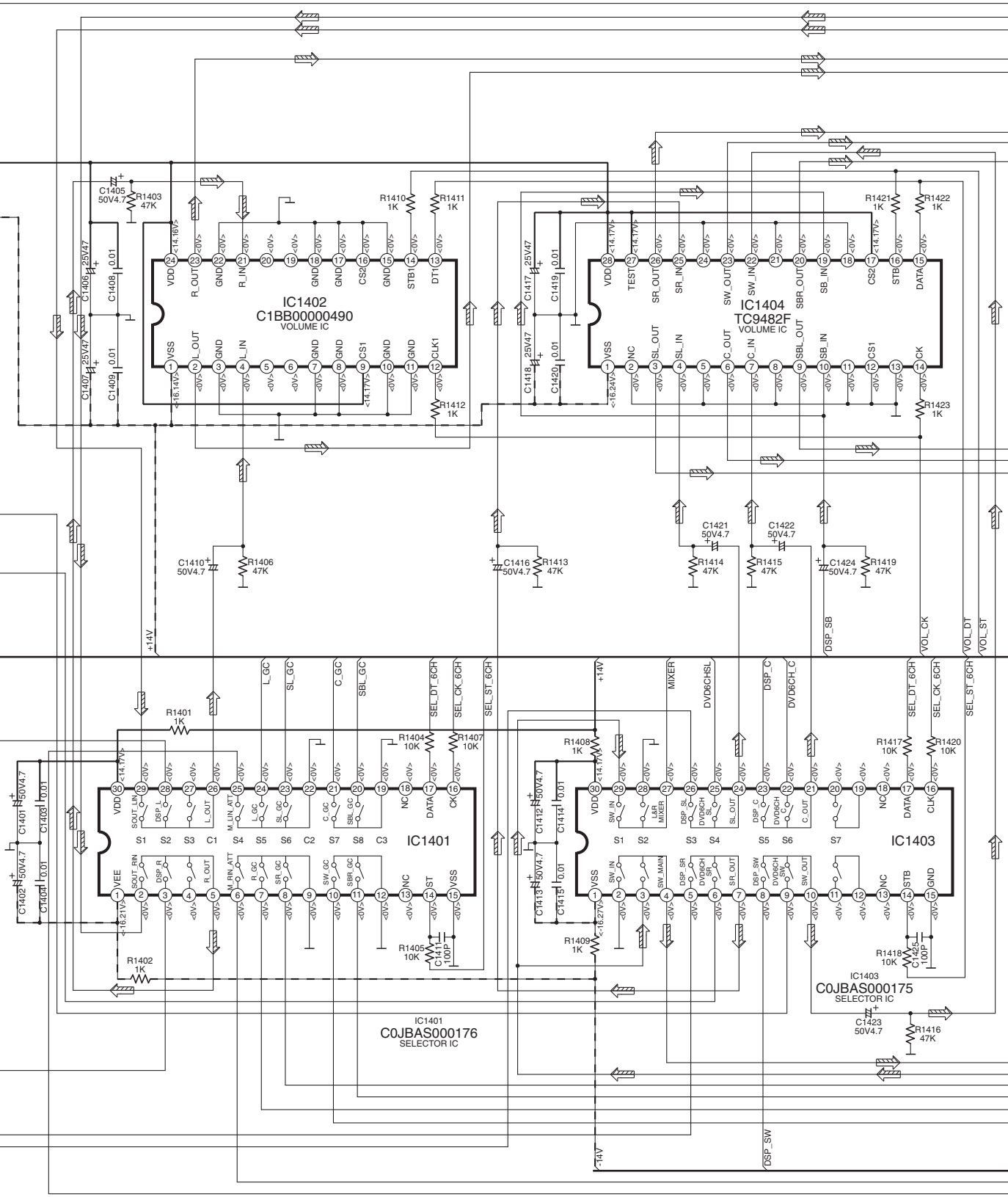
——— : +B SIGNAL LINE
– – – – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-3

A DIGITAL CIRCUIT

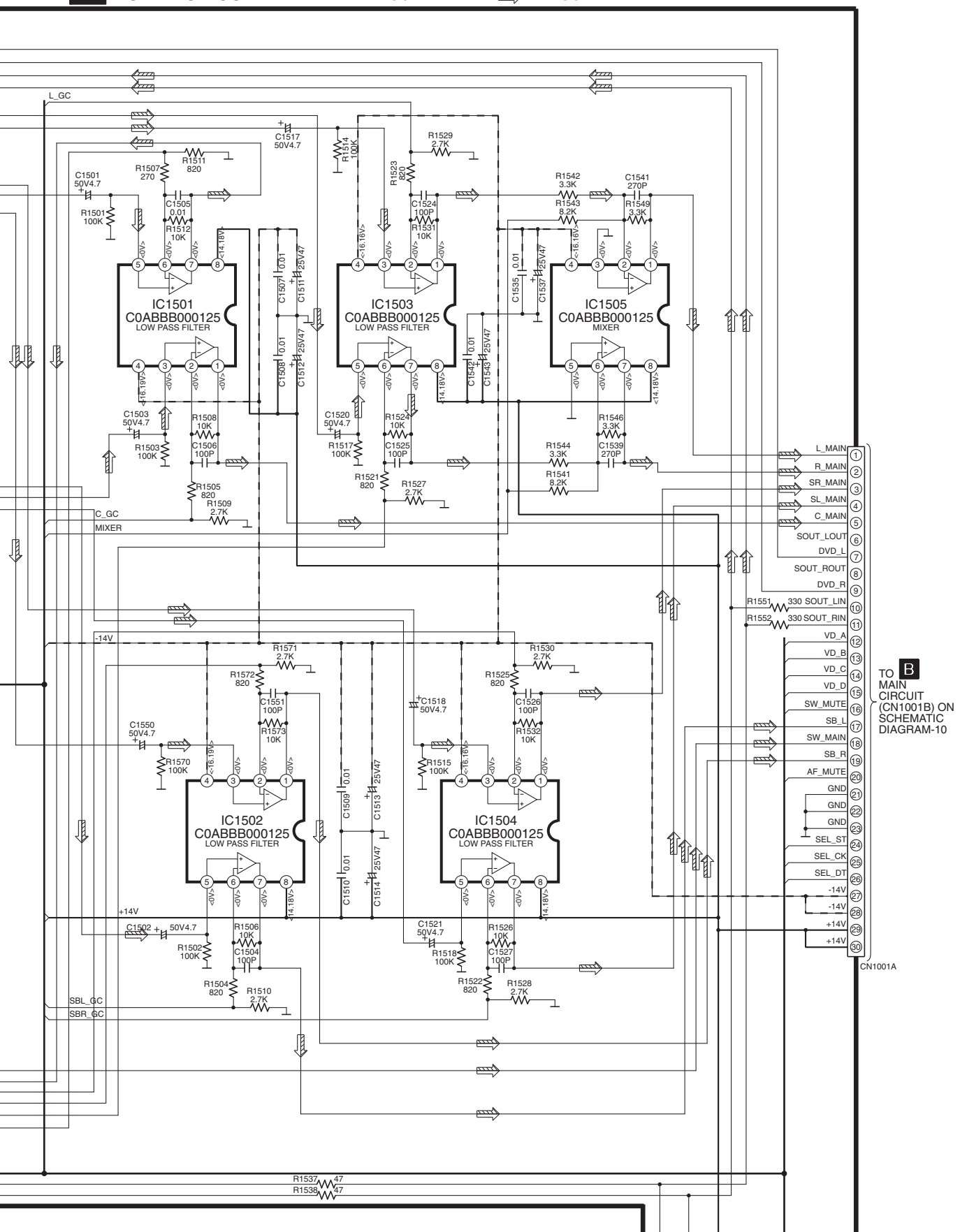
——— : +B SIGNAL LINE
– – – – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-4

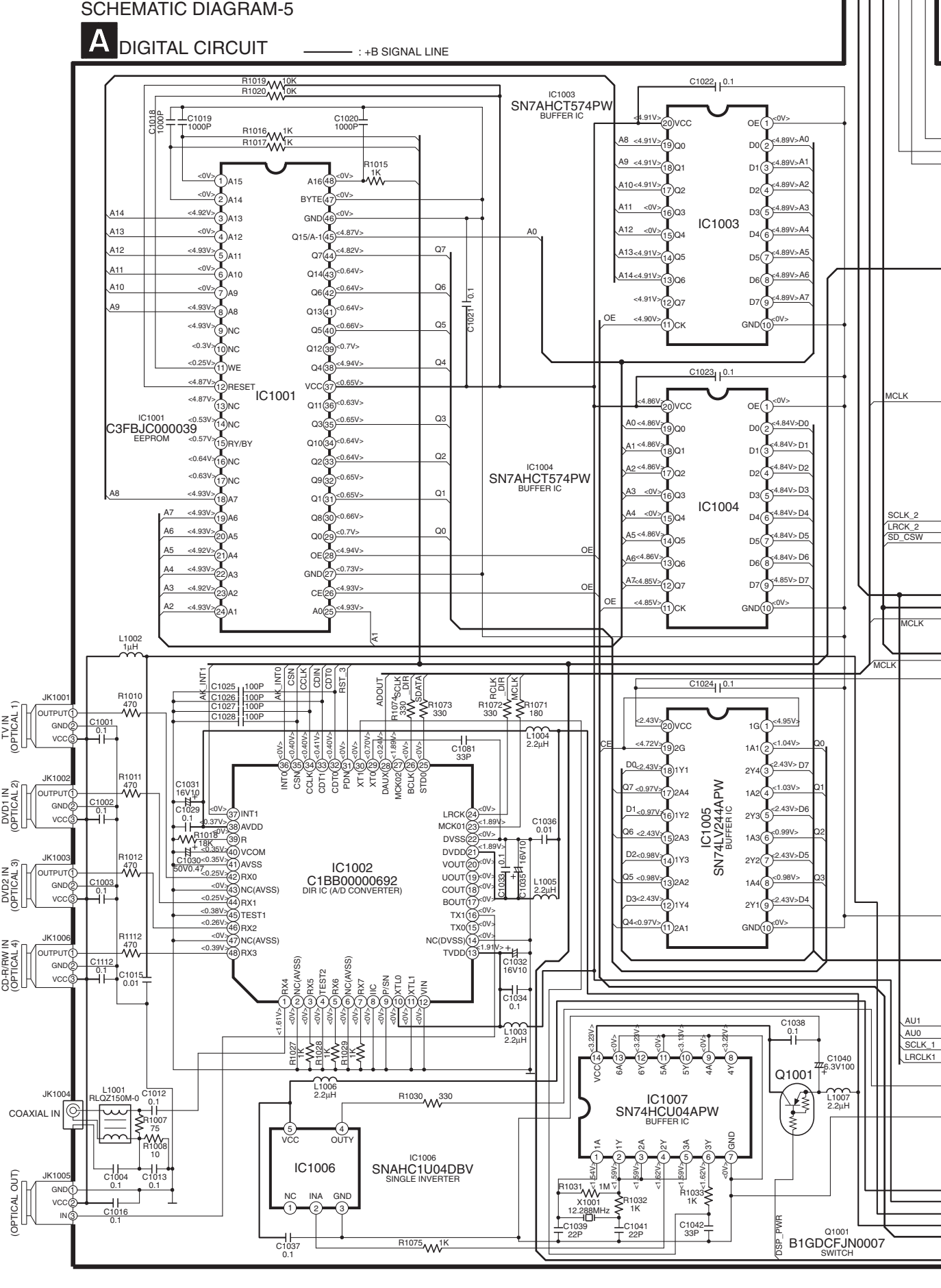
A DIGITAL CIRCUIT

——— : +B SIGNAL LINE
– – – – : -B SIGNAL LINE
⇒ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-5

A DIGITAL CIRCUIT ——— : +B SIGNAL LINE

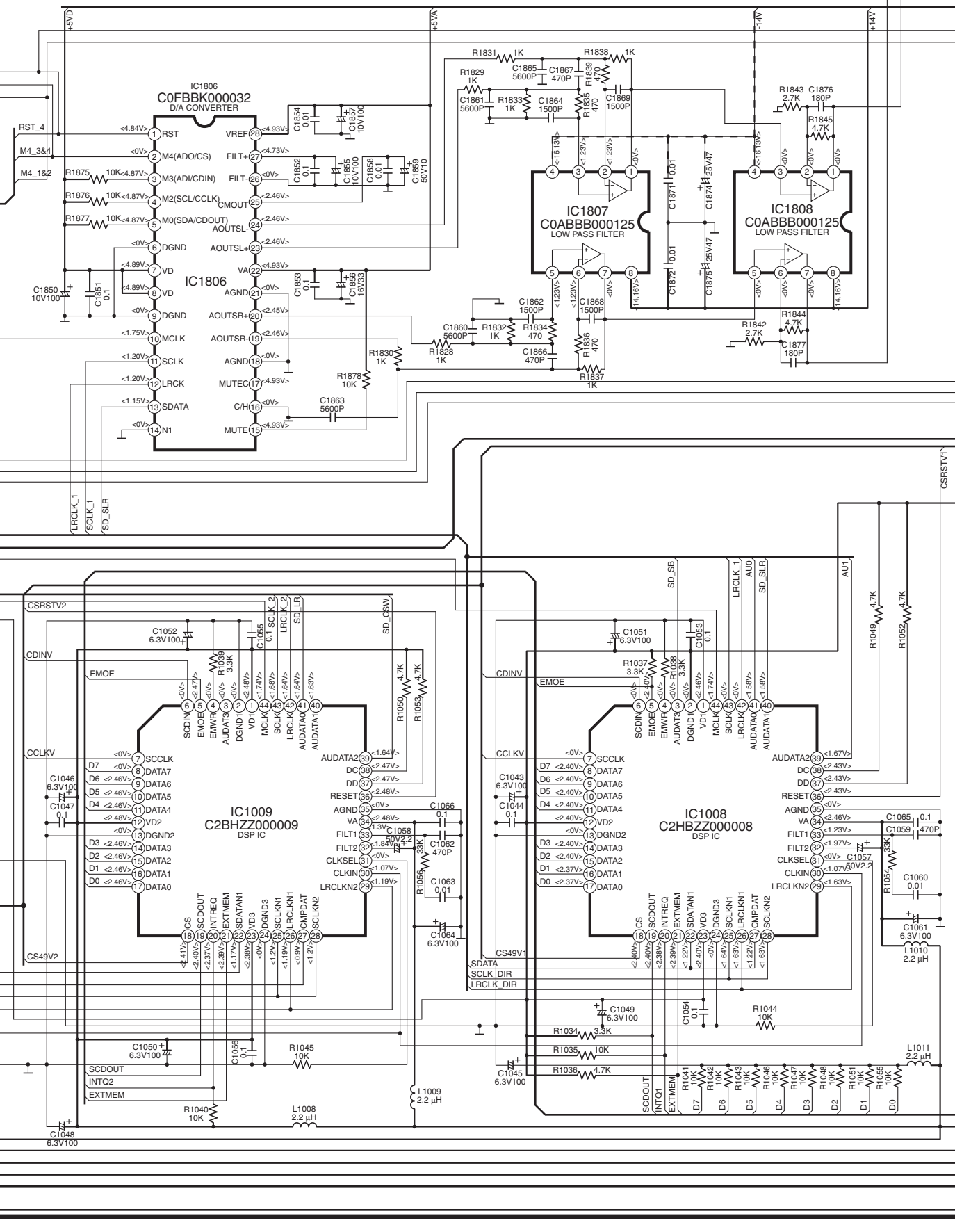


SCHEMATIC DIAGRAM-6

A DIGITAL CIRCUIT

——— : +B SIGNAL LINE

– – – – : -B SIGNAL LINE

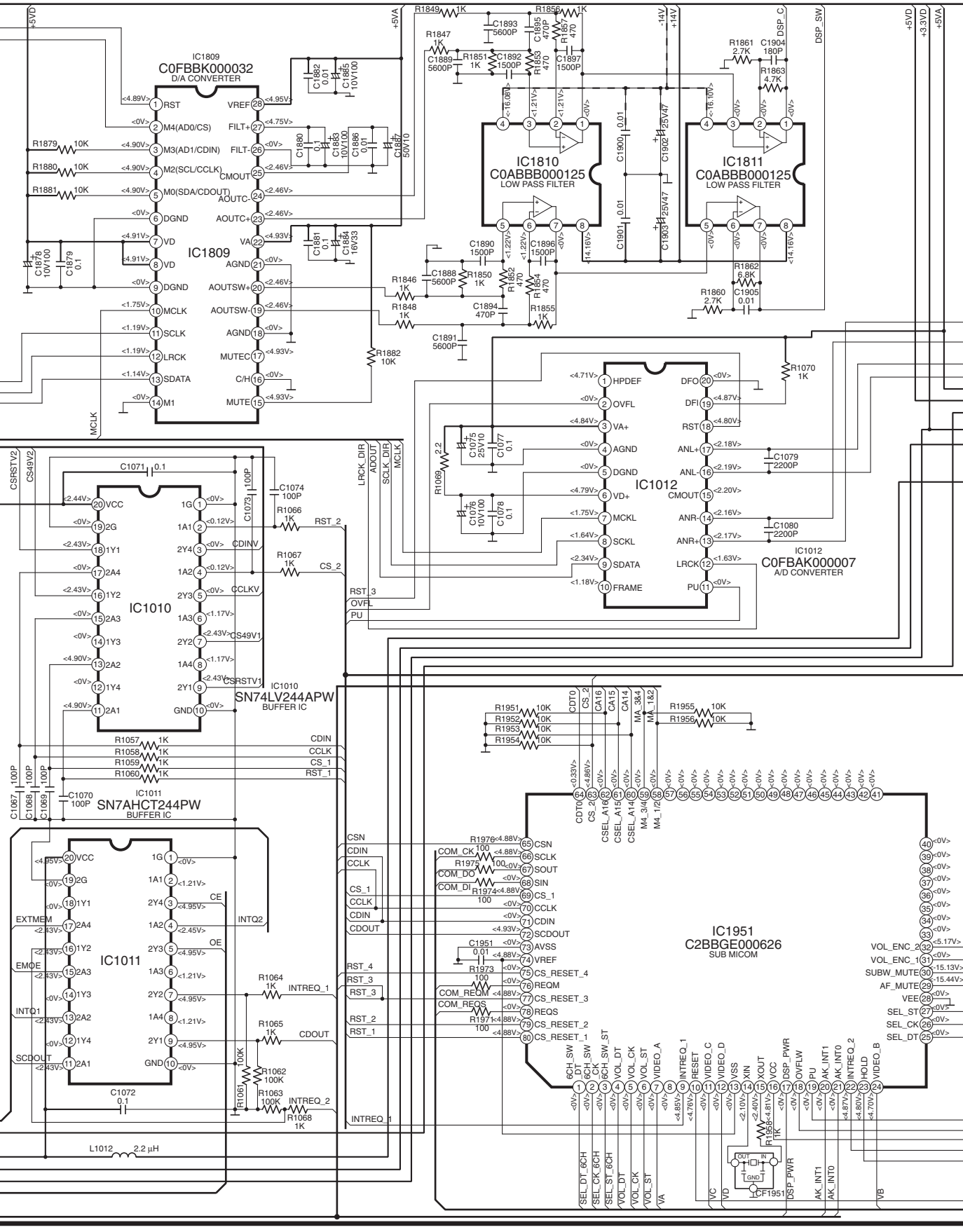


SCHEMATIC DIAGRAM-7

A DIGITAL CIRCUIT

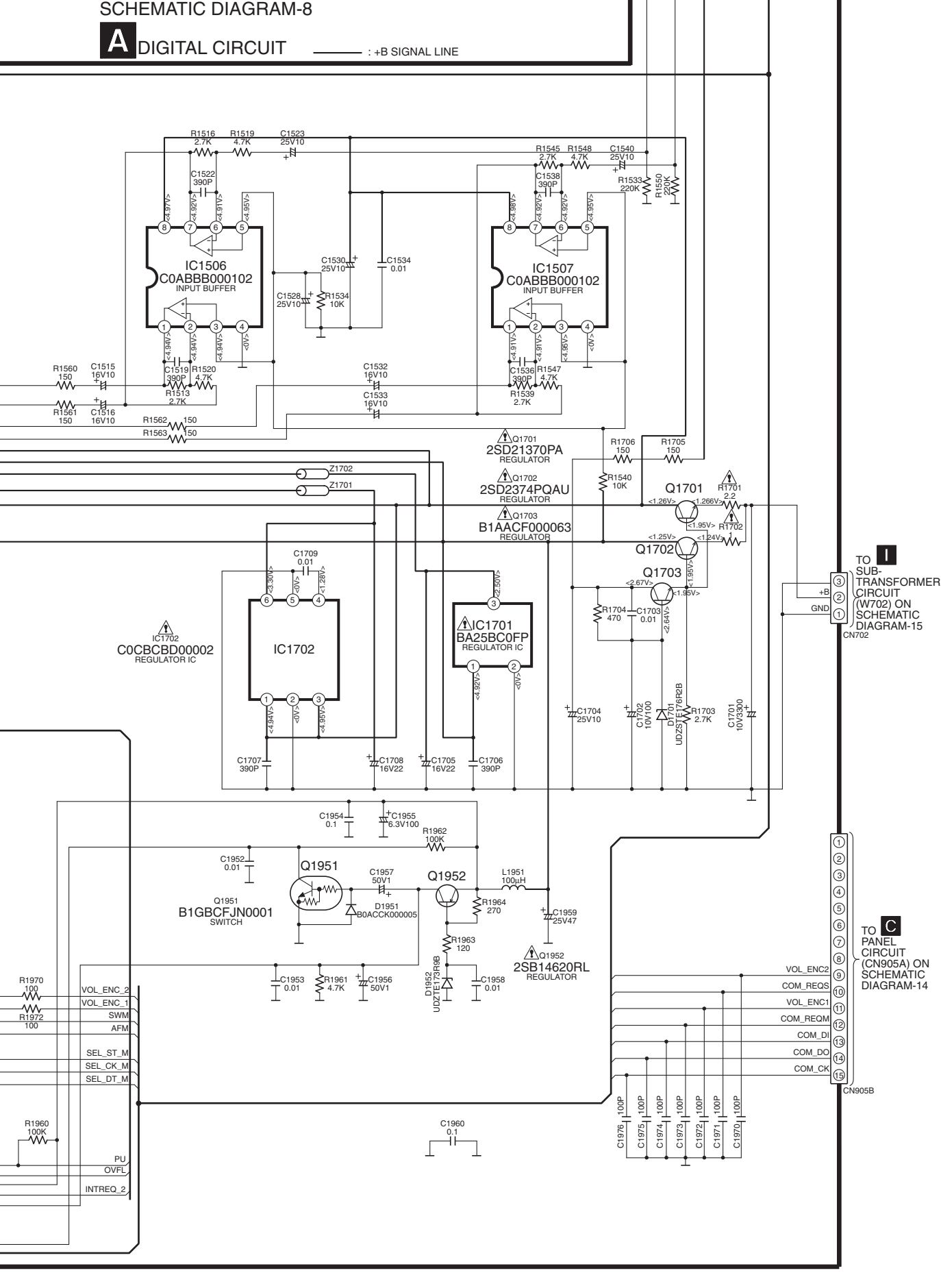
: +B SIGNAL LINE

: -B SIGNAL LINE



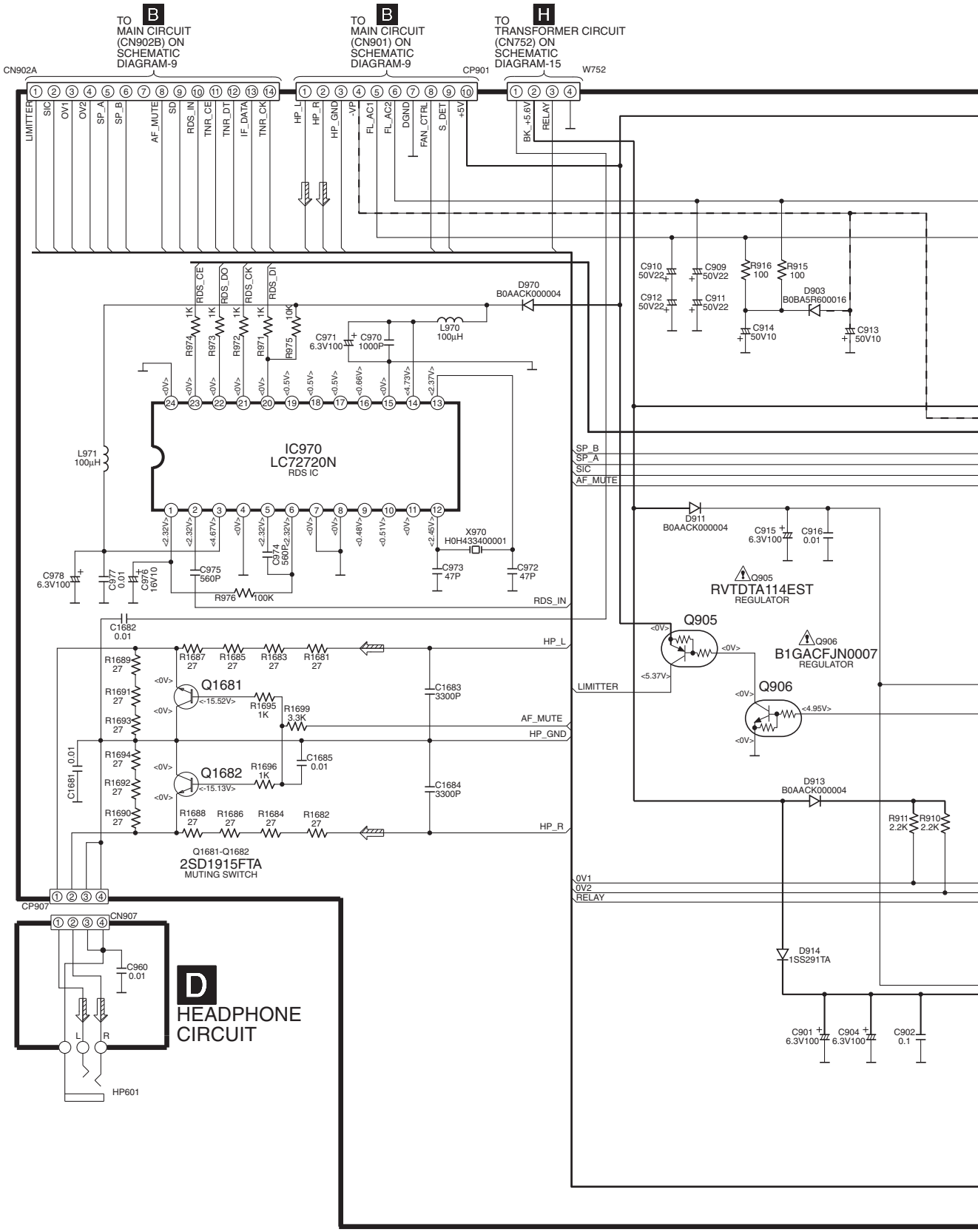
SCHEMATIC DIAGRAM-8

A DIGITAL CIRCUIT ——— : +B SIGNAL LINE



C PANEL CIRCUIT

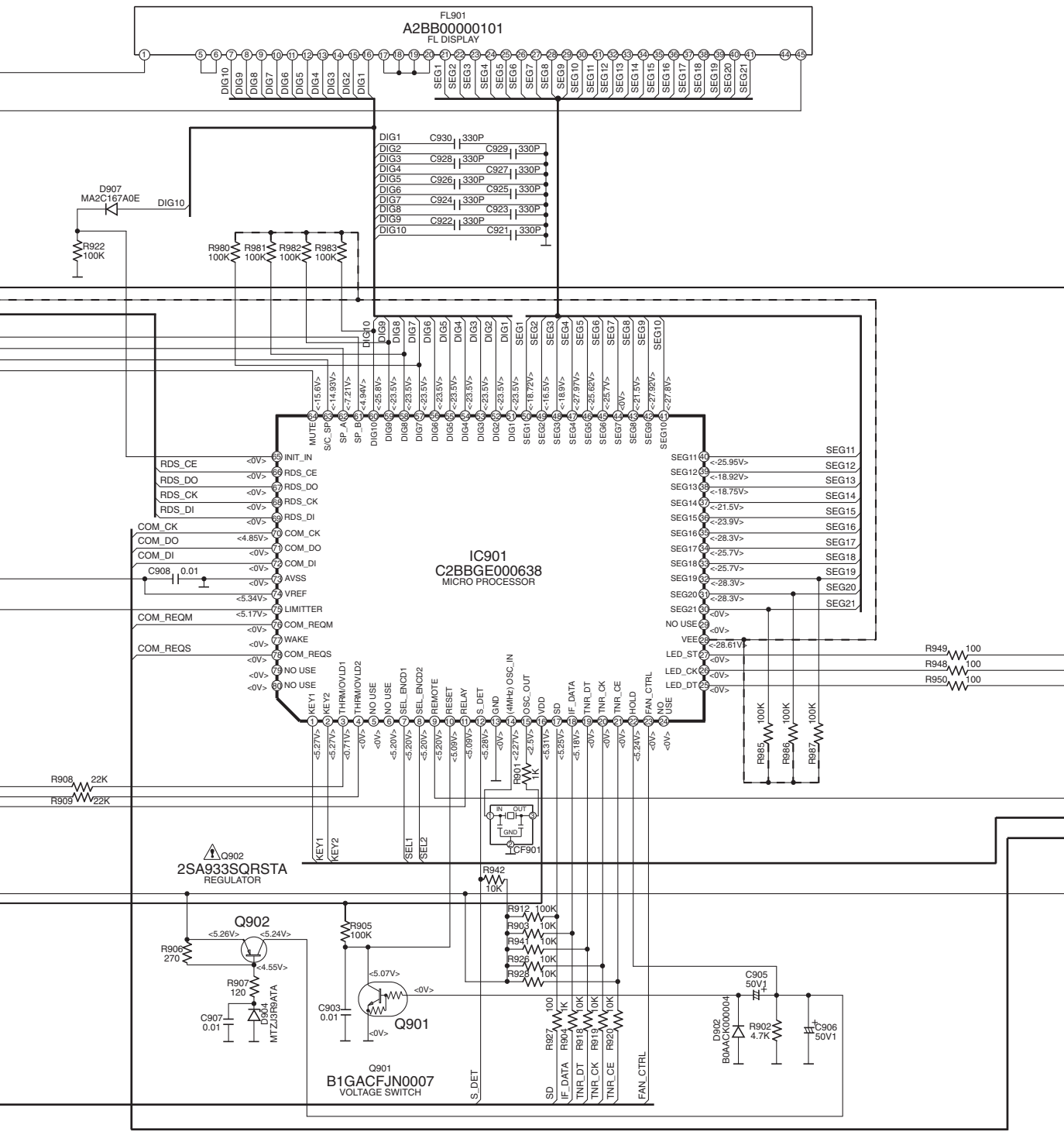
: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-13

C PANEL CIRCUIT

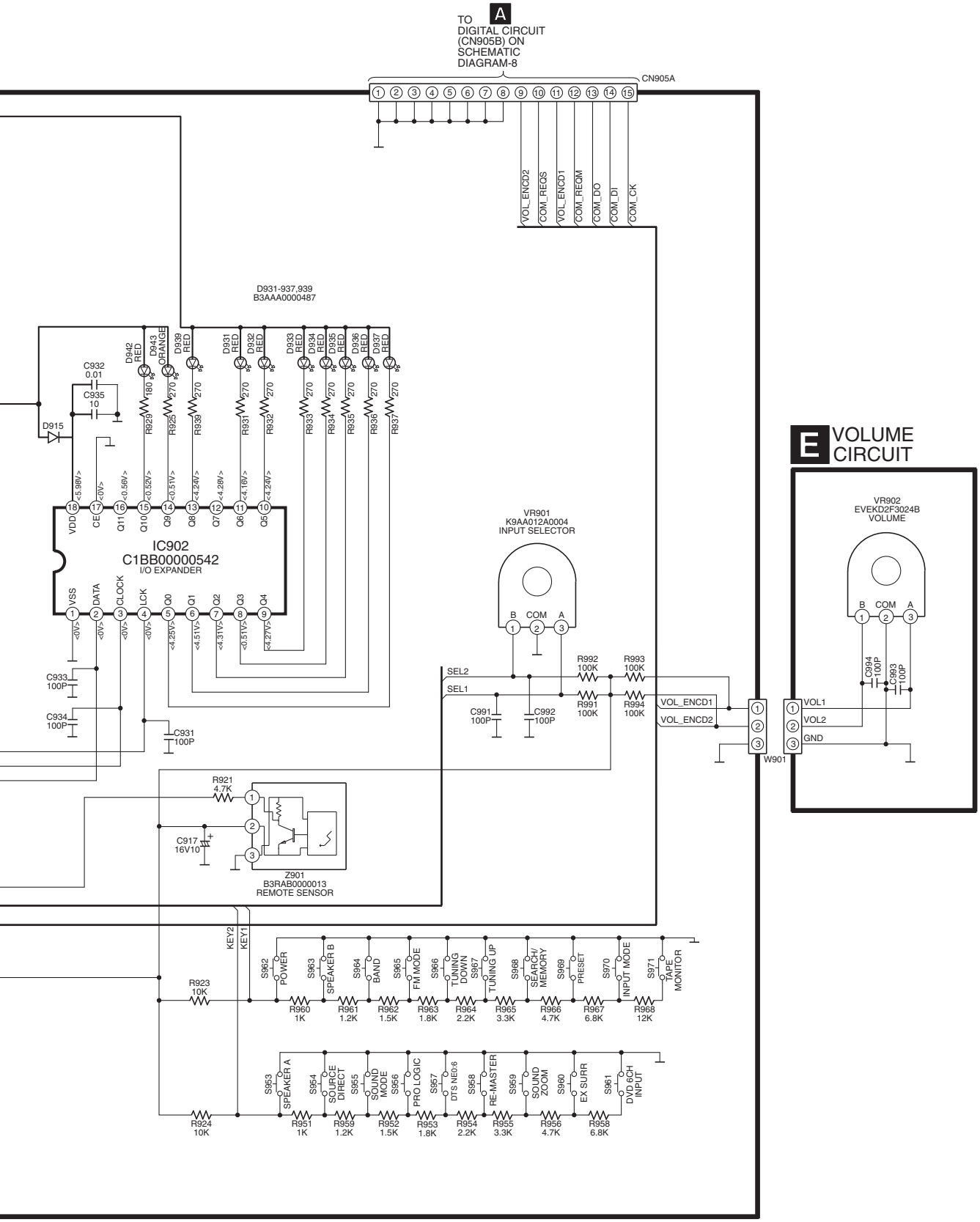
——— : +B SIGNAL LINE – – – : -B SIGNAL LINE



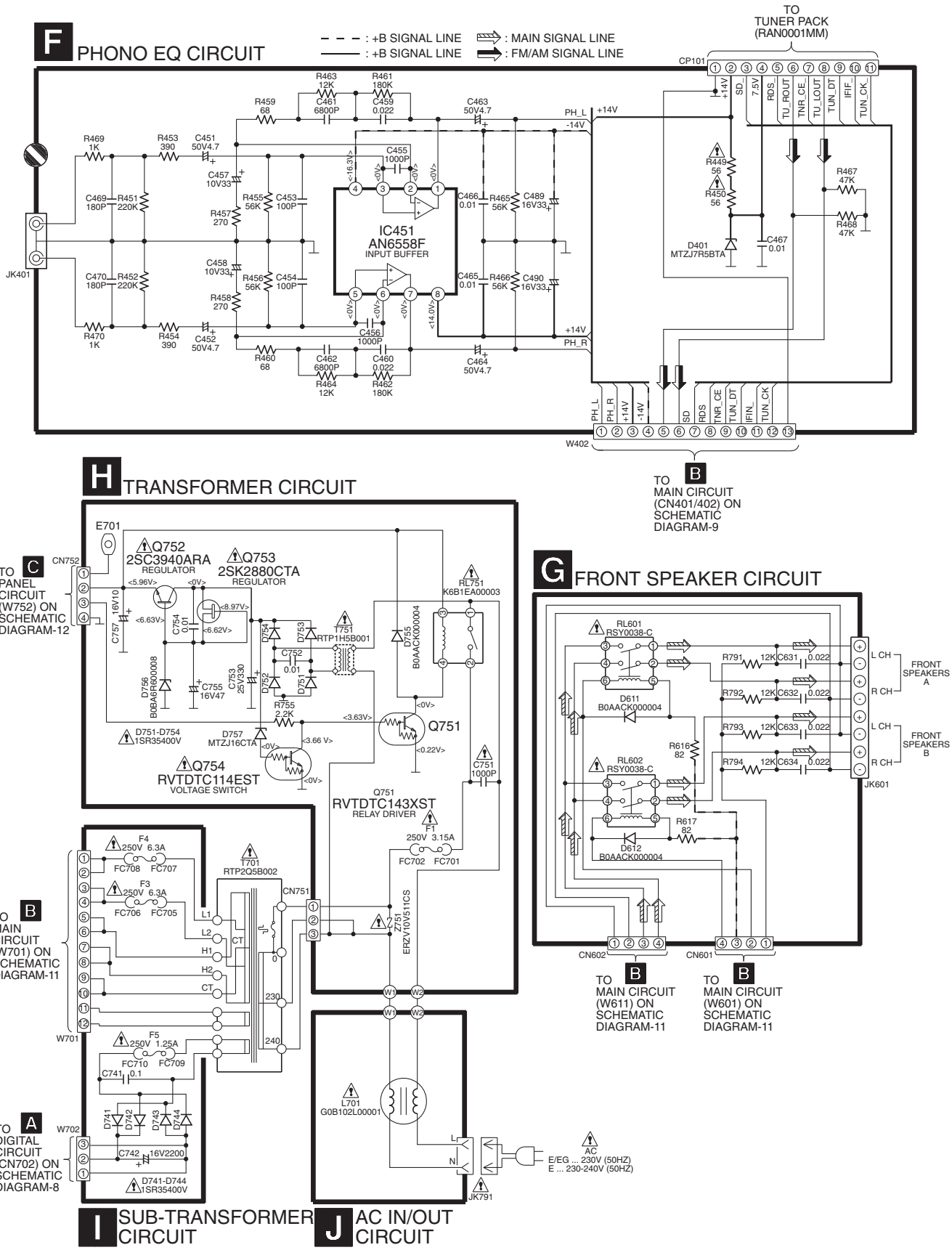
SCHEMATIC DIAGRAM-14

C PANEL CIRCUIT

—— : +B SIGNAL LINE



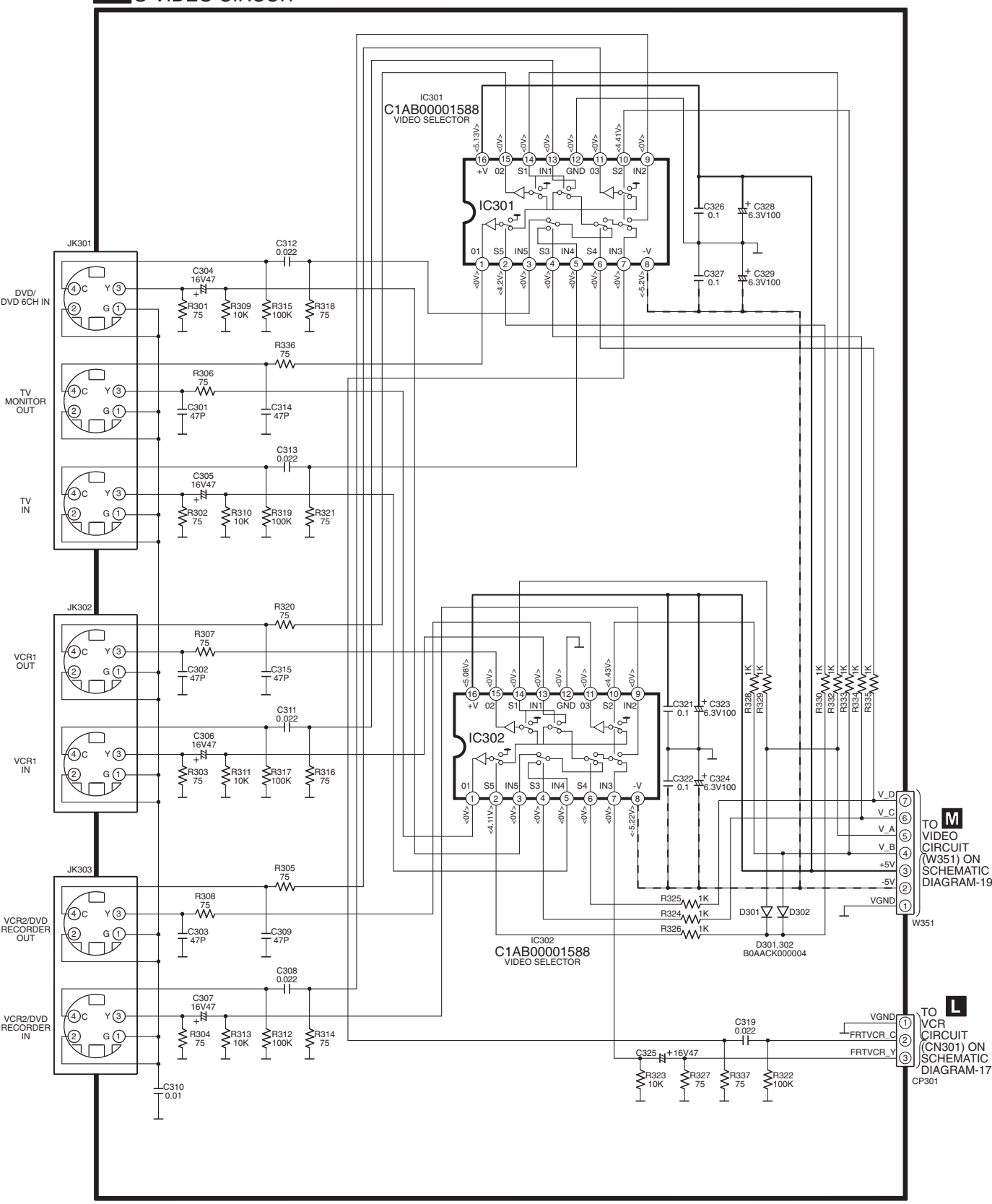
SCHEMATIC DIAGRAM-15



SCHEMATIC DIAGRAM-16

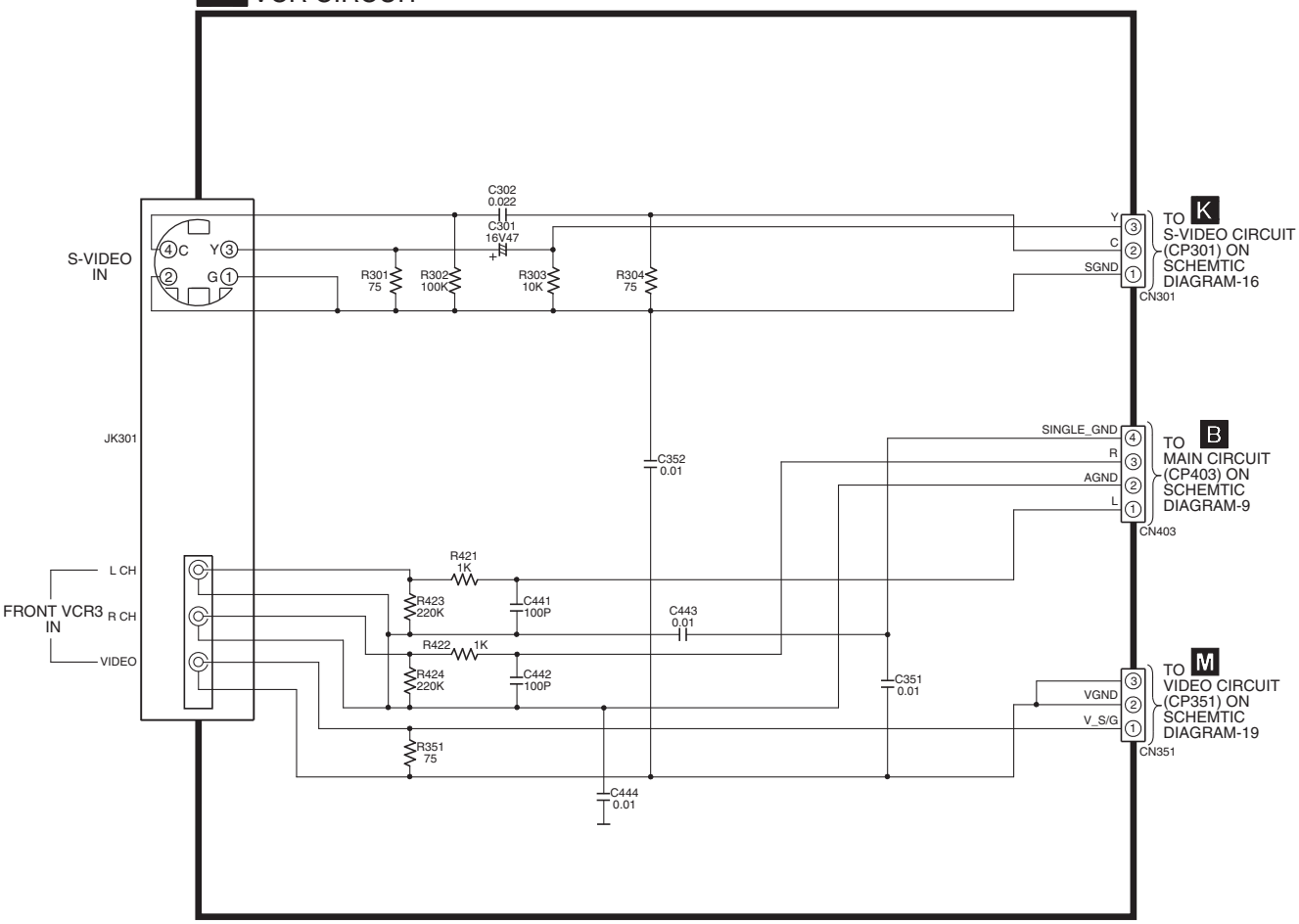
K S-VIDEO CIRCUIT

: -B SIGNAL LINE
: +B SIGNAL LINE



SCHEMATIC DIAGRAM-17

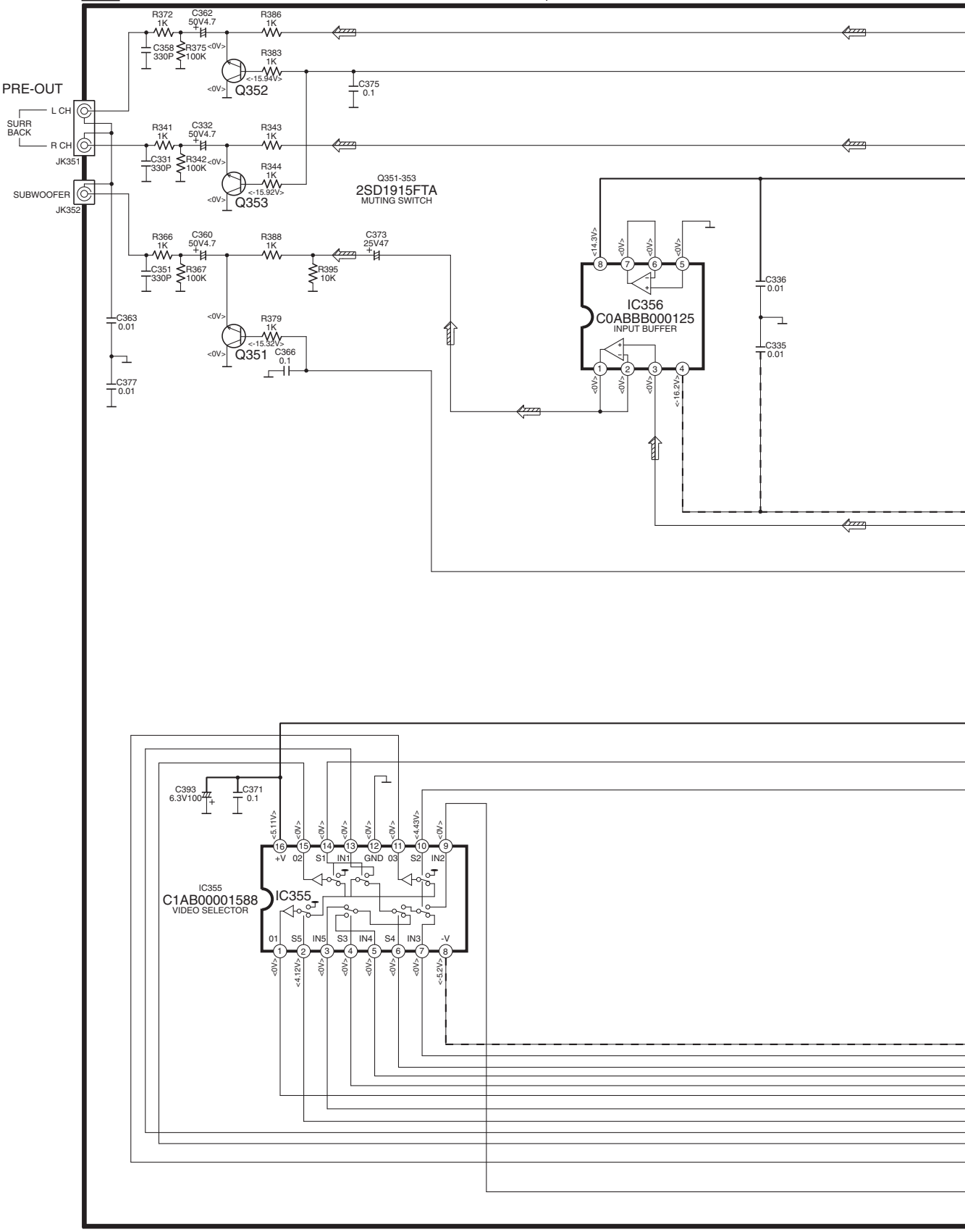
L VCR CIRCUIT



SCHEMATIC DIAGRAM-18

M VIDEO CIRCUIT

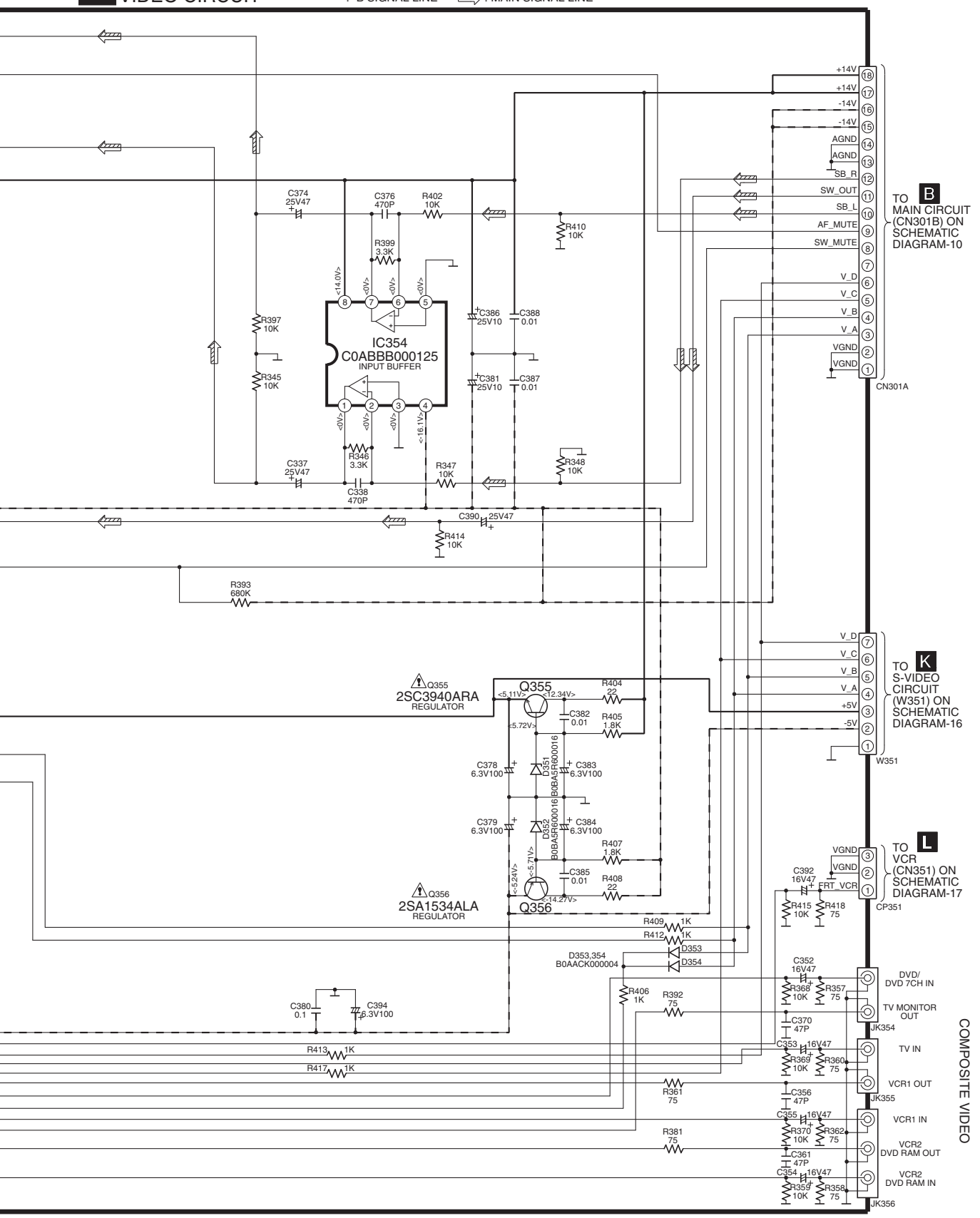
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-19

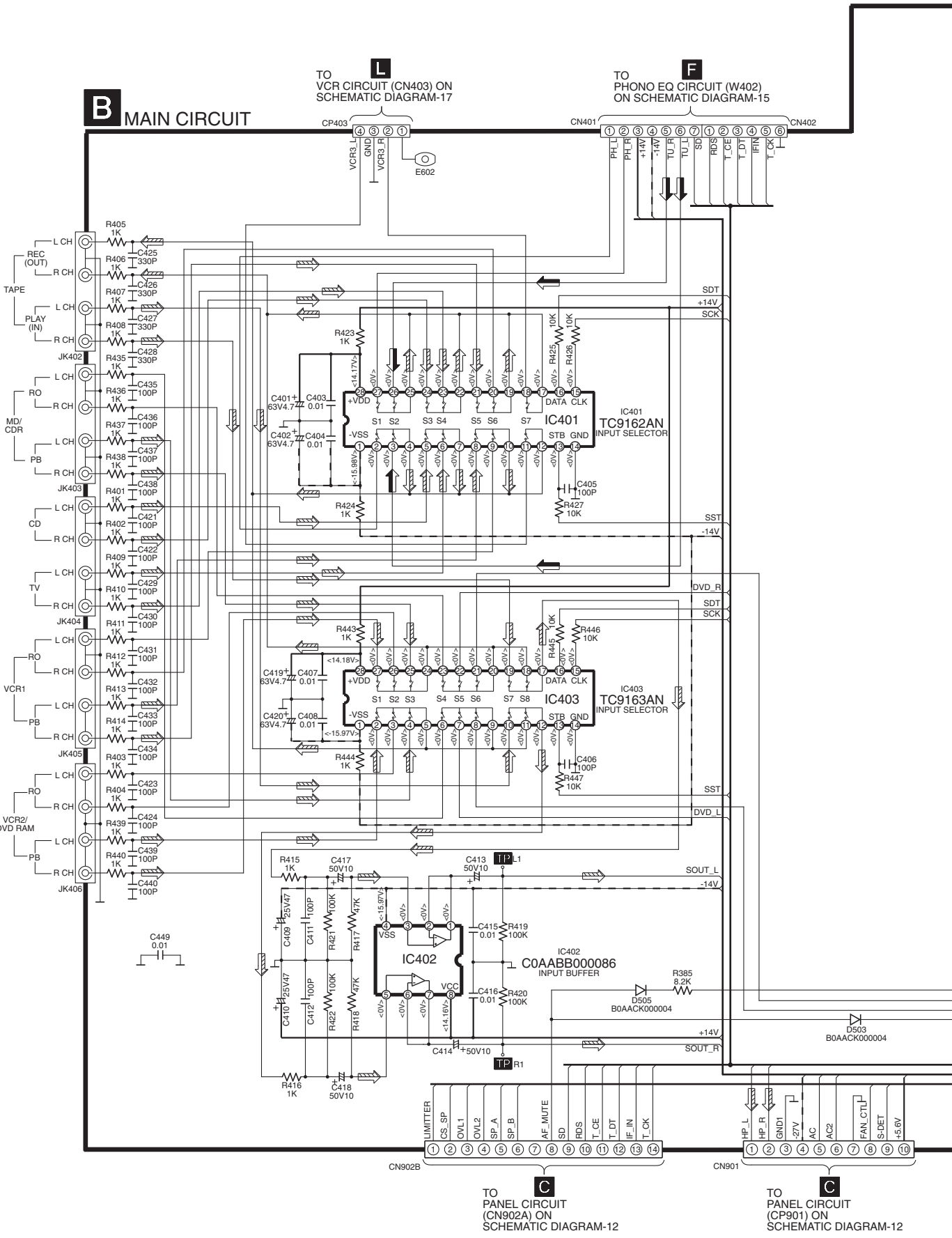
M VIDEO CIRCUIT

——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE
⇒ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-9

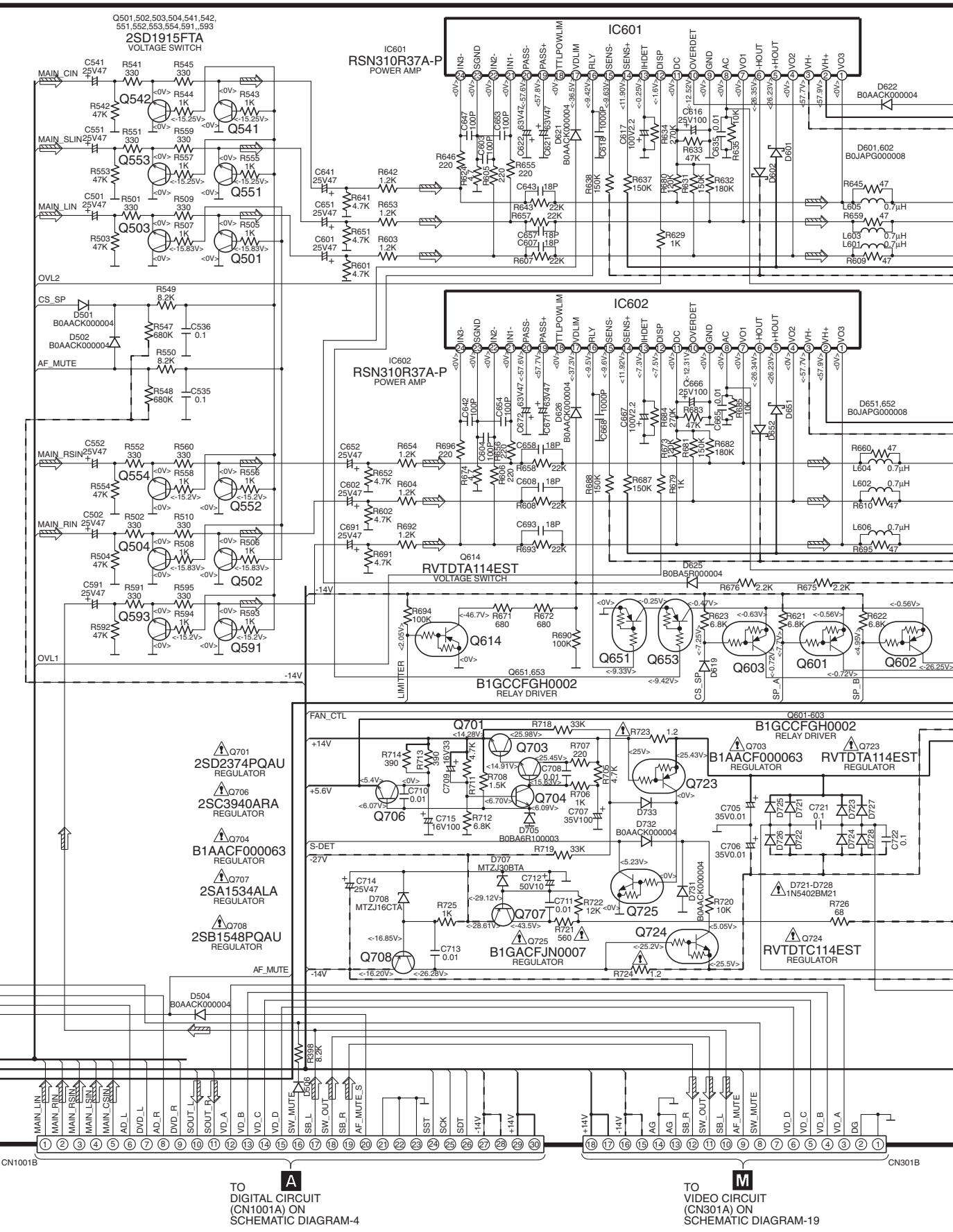
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE ⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-10

—— : +B SIGNAL LINE - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT



SCHEMATIC DIAGRAM-11

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT